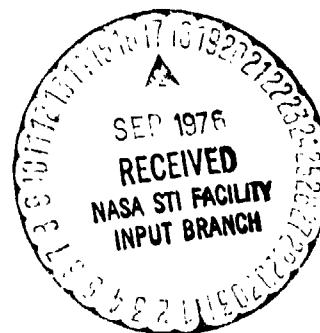


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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services

SPACE DIVISION

CHRYSLER
CORPORATION

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TRANSITION HEATING RATES DETERMINED ON A 0.006
SCALE SPACE SHUTTLE ORBITER MODEL (NO. 50-0) IN
THE NASA/LARC MACH 8 VARIABLE DENSITY WIND
TUNNEL TEST (OHL4)

by

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Shuttle Aerosciences
Rockwell International Space Division

Prepared under NASA Contract Number NAS9-13247

by

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Chrysler Corporation Space Division
New Orleans, La. 70189

for

Engineering Analysis Division
Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: LaRC 8 VDHT 648
NASA Series Number: OH14
Model Number: 50-0
Test Dates: 17 and 18 October 1973

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ABSTRACT

This report presents data obtained from Wind Tunnel tests of an .006-scale Space Shuttle Orbiter model (Per Rockwell Lines VL70-000147B, Model 50-0) in the 18" Variable Density Wind Tunnel at Langley Research Center.

The tests, denoted as OH14, were performed to determine transition heating rates using thin skin thermocouples located at various locations on the Space Shuttle Orbiter.

The model was tested at $M = 8.0$ for a range of Reynolds numbers per foot varying from 1.0 to 10.0 million with angles-of-attack from 20 to 35 degrees incremented by 5 degrees.

The tests were conducted in 16.0 occupancy hours, beginning October 17 and ending October 18 with the completion of 30 test runs.

TABLE OF CONTENTS

| | Page |
|---|------|
| ABSTRACT | iii |
| INDEX OF MODEL FIGURES | 2 |
| INDEX OF DATA FIGURES | 3 |
| NOMENCLATURE | 6 |
| REMARKS | 8 |
| CONFIGURATION INVESTIGATED | 9 |
| TEST FACILITY DESCRIPTION | 10 |
| TEST PROCEDURE | 11 |
| DATA REDUCTION | 12 |
| TABLES | |
| I. TEST CONDITIONS | 13 |
| II. DATA SET/RUN NUMBER COLLATION SUMMARY | 15 |
| III. MODEL DIMENSIONAL DATA | 16 |
| IV. ORBITER THERMOCOUPLE LOCATIONS AND SKIN THICKNESS | 22 |
| FIGURES | |
| MODEL | 24 |
| DATA | 29 |
| APPENDIX | |
| TABULATED SOURCE DATA | |

| Figure | INDEX OF MODEL FIGURES Title | Page |
|--|---------------------------------|------|
| 1. Model Sketches | | |
| | a. Orbiter Three-View | 24 |
| | b. Orbiter Instrumentation | 25 |
| 2. Specific heat variation with temperature for 17-4 PH stainless steel. | | 26 |
| 3. Schlieren Photograph at 25 degrees angle of attack. | | 27 |

INDEX OF DATA FIGURES

| FIGURE NUMBER | TITLE | SCHEDULE OF COEFFICIENTS PLOTTED | | VARYING CONDITIONS | PAGES |
|------------------|---|--|---|-----------------------|---------|
| | | | | | |
| 4 | FUSELAGE LOWER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK | H/HO vs. X/L | A | | 1-8 |
| 5 | WING LOWER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK | H/HO vs. X/C | B | | 9-16 |
| 6 | FUSELAGE UPPER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK | H/HO vs. X/L | C | | 17-24 |
| 7 | FUSELAGE LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK | H/HO vs. X/L | A | | 25-38 |
| 8 | WING LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK | H/HO vs. X/C | B | | 39-52 |
| 9 | FUSELAGE UPPER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK | H/HO vs. X/L | C | | 53-66 |
| 10 | FUSELAGE LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK | H/HO vs. X/L | A | | 67-84 |
| 11 | WING LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK | H/HO vs. X/C | B | | 85-102 |
| 12 | FUSELAGE UPPER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK | H/HO vs. X/L | C | | 103-120 |
| 13 | FUSELAGE LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK | H/HO vs. X/L | A | | 121-134 |
| 14 | WING LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK | H/HO vs. X/C | B | | 135-148 |

INDEX OF DATA FIGURES (Continued)

| FIGURE NUMBER | TITLE | SCHEDULE OF COEFFICIENTS | | VARYING CONDITIONS | PAGES |
|------------------|---|-----------------------------|---------|-----------------------|---------|
| | | | PLOTTED | | |
| 15 | FUSELAGE UPPER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK | H/HO vs. | X/L | C | 149-162 |
| 16 | VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE | H/HO vs. | X/L | D | 163-190 |
| 17 | VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE | H/HO vs. | X/C | E | 191-232 |
| 18 | VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE | H/HO vs. | X/L | F | 233-302 |
| 19 | VARIATION OF RN/L ON FUSELAGE LOWER SURFACE AT 20 DEG. ANGLE OF ATTACK | H/HO vs. | X/L | A | 303-306 |
| 20 | VARIATION OF RN/L ON WING LOWER SURFACE AT 20 DEG. ANGLE OF ATTACK | H/HO vs. | X/C | B | 307-312 |
| 21 | VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 20 DEG. ANGLE OF ATTACK | H/HO vs. | X/L | C | 313-322 |
| 22 | VARIATION OF RN/L ON FUSELAGE LOWER SURFACE AT 25 DEG. ANGLE OF ATTACK | H/HO vs. | X/L | A | 323-326 |
| 23 | VARIATION OF RN/L ON WING LOWER SURFACE AT 25 DEG. ANGLE OF ATTACK | H/HO vs. | X/C | B | 327-338 |
| 24 | VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 25 DEG. ANGLE OF ATTACK | H/HO vs. | X/L | C | 339-358 |
| 25 | VARIATION OF RN/L ON FUSELAGE LOWER SURFACE AT 30 DEG. ANGLE OF ATTACK | H/HO vs. | X/L | A | 359-366 |

INDEX OF DATA FIGURES (Concluded)

| FIGURE NUMBER | TITLE | SCHEDULE OF COEFFICIENTS | | VARYING CONDITIONS | PAGES |
|------------------|---|-----------------------------|---------|-----------------------|---------|
| | | PLOTTED | | | |
| 26 | VARIATION OF RN/L ON WING LOWER SURFACE AT 30 DEG. ANGLE OF ATTACK | H/HO | vs. X/C | B | 367-378 |
| 27 | VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 30 DEG. ANGLE OF ATTACK | H/HO | vs. X/L | C | 379-398 |
| 28 | VARIATION OF RN/L ON FUSELAGE LOWER SURFACE AT 35 DEG. ANGLE OF ATTACK | H/HO | vs. X/L | A | 399-406 |
| 29 | VARIATION OF RN/L ON WING LOWER SURFACE AT 35 DEG. ANGLE OF ATTACK | H/HO | vs. X/C | B | 407-418 |
| 30 | VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 35 DEG. ANGLE OF ATTACK | H/HO | vs. X/L | C | 419-438 |

VARYING CONDITIONS:

- A: HAW/HT, B.P., RN/L
- B: HAW/HT, 2Y/B, RN/L
- C: HAW/HT, W.P., RN/L
- D: RN/L, HAW/HT, B.P., ALPHA
- E: RN/L, HAW/HT, 2Y/B, ALPHA
- F: RN/L, HAW/HT, W.P., ALPHA

NOMENCLATURE

| <u>SYMBOL</u> | <u>PLOT SYMBOL</u> | <u>DEFINITION</u> |
|-----------------------------------|------------------------|--|
| b | | model skin thickness, inches |
| b/2 | | wing semispan |
| c | | Specific heat of model material, BTU/LBM-°R |
| C _p | | Specific heat at constant pressure of airstream, BTU/LBM-°R |
| dT _w /dt | | Temperature/time slope, °R/Sec |
| g | | gravitational constant, ft/sec ² |
| h _{local} | | local heat transfer coefficient, lbm/ft ² -sec |
| h _i | HI | heat transfer coefficient in interference flow field, lbm/Ft ² -sec |
| h _{ref} | HREF | reference heat transfer coefficient (stagnation on 1 foot full scale sphere), lbm/ft ² -sec |
| h(T _o) | | local T/C heat-transfer coefficient |
| h _u | HU | heat transfer coefficient in undisturbed flow field, lbm/ft ² -sec |
| H | | enthalpy, BTU/lb |
| H _{aw} | | Adiabatic wall enthalphy, BTU/lb |
| H _o | | stagnation enthalpy |
| k | | thermal conductivity coefficient, BTU/FT-sec |
| M | | Mach number |
| P _o | | Stagnation Pressure, PSIA |
| P | | Static Pressure, PSIA |
| P _r | | Prandtl Number |
| q̇ | | Heat Flux, BTU/FT ² sec |
| q̇ _{ot} | QDOT | stagnation - Point heat transfer, rate calculated using Fay and Raddell's equation BTU/FT ² - sec. |
| q̇ _w /q̇ _{ot} | | ratio of wall heat-transfer rate to theoretical stagnation point heat-transfer rate |
| r _s | | radius of scaled one-ft sphere, inches |
| r | | adiabatic wall temperature ratio (TAW/To) = Re- covery factor |
| R | | gas constant, FT-Lb/Slug- °R |
| | H/HO | model-to-sphere ratio of heat transfer coefficient |

NOMENCLATURE - (Concluded)

| <u>SYMBOL</u> | <u>PLOT SYMBOL</u> | <u>DEFINITION</u> |
|----------------|------------------------|--|
| Re | | Reynolds number |
| Re/l | RN/L | unit Reynolds number, million per foot |
| t | | time, sec |
| T | | temperature, °R |
| T/C | | Thermocouple No. |
| T _w | | Wall temperature initial, °R |
| U | | velocity, ft/sec |
| W | | Density of model material, lbm/Ft ² |
| X/C | X/C | fraction of local chord |
| XO | | Orbiter longitudinal coordinate, in. |
| X | | Tank longitudinal coordinate, in. |
| X/L | X/L | fraction of fuselage length |
| YO | | Orbiter lateral coordinate, in. |
| Y _T | | Tank lateral coordinate, in |
| ZO | | Orbiter vertical coordinate, in. |
| Z _T | | Tank vertical coordinate, in. |
| α | ALPHA | Angle between model centerline and wind vector, deg. |
| μ | | viscosity of air, lb-sec/Ft |
| ρ | | density of air, slug/ft ³ |
| β | BETA | angle of sideslip, deg |
| φ | PHI | T/C Location angle, deg |
| φ _m | | model roll angle, deg |

Subscripts:

| | |
|----|---|
| aw | Adiabatic wall |
| ∞ | Tunnel Free-stream conditions |
| m | measured |
| o | tunnel stagnation conditions |
| t | theoretical |
| w | model wall conditions |
| ' | Primed quantities indicate conditions behind normal shock |

REMARKS

This series of tests utilized the 0.006 scale model of the space shuttle orbiter and was conducted in the NASA Langley Research Center 18-inch Variable Density Wind Tunnel at $M = 8.0$. The model was mounted inverted in the test section. Material properties for this model are presented in the Data Reduction section of this report and in figure 2.

Schlieren photographs were taken for each run, although some were lost due to a failure of the camera.

Parameters varied during testing were Reynolds number and angle of attack.

CONFIGURATION INVESTIGATED

The model was a 0.006-scale representation of the Rockwell International Space Shuttle Orbiter. The configuration is defined by Rockwell Drawing VL70-000147B.

The orbiter was cast in one piece from stainless steel (PH 17-4) and was instrumented with 77 thin skin thermocouple inserts. The underside centerline and BP 117.0 was instrumented with 33 thermocouples. The underside left wing was instrumented with 23 thermocouples in three chord-wise rows. The upper fuselage side wall and chine areas were instrumented with 16 and 3 thermocouples, respectively. The OMS Pod and Canopy were each instrumented with 1 thermocouple. X/L, X/C and ϕ locations and skin thicknesses are given in table IV and figure 1b.

The thermocouples were fabricated of 30 gage iron-constantan with Kapton insulation. The thermocouples were attached to thin skin ($.035 \pm .005$ - inch) stainless steel inserts. Figure 2 presents specific heat vs. temperature for 17-4 PH stainless steel.

The model contained no movable parts; therefore, the orbiter configuration was defined for this test as O_1

where:

| | | |
|-------|---|----------------------|
| O_1 | = | B22 C7 F5 M4 V7 W111 |
| B22 | = | Fuselage |
| C7 | = | Canopy |
| F5 | = | Body Flap |
| M4 | = | OMS Pods |
| V7 | = | Vertical |
| W111 | = | Wing |

Table III provides a complete description of the configuration components.

TEST FACILITY DESCRIPTION

The Langley Mach 8.0 Variable Density Hypersonic Wind Tunnel is located in building 1247-D and is under the direction of the Aerophysics division. The tunnel is used for fundamental aerodynamic and fluid dynamic investigations over large Reynolds number ranges using pressure and heat transfer measurements. The test medium is air and is heated by a combination of dowtherm and electrical resistance heaters. The models are sting mounted with injection from the bottom of the test section after flow has been established. The tunnel has an axially symmetric contoured nozzle. The tunnel has an 18-inch diameter cross-section with a core of 4 to 14 inches, depending on the pressure.

Examples of operating conditions are:

| | |
|--|---|
| Stagnation Pressure (PSIA) | 15 to 2930 |
| Stagnation Temperature ($^{\circ}$ R) | 1160 to 1510 |
| Mach Number | 7.5 to 8.0 |
| Reynolds Number (1/FT) | 0.1×10^6 to 12.0×10^6 |
| Running Time (sec.) | |
| Exhaust into vacuum tank | 90 |
| Exhaust into atmosphere | 600 |

TEST PROCEDURE

The model thermocouples were checked prior to testing. The check consisted of installing a glove on the model which marked the location and identification number of each thermocouple. Heat was applied to each thermocouple with a soldering iron and a simultaneous visual check of the tunnel instrumentation panel was made to determine if the thermocouple was operating properly.

The model was installed in the tunnel in an inverted position. During installation it was noted that the vertical tail would not clear the injector mechanism at angles of attack greater than 35° . Angles of attack during this test were, therefore, limited to 35° .

The testing sequence was as follows. The model remained in the injection chamber when tunnel flow was initiated until a stable flow condition was established and the desired stagnation temperature was attained. The model was then injected into the test section where it remained for approximately 4 to 5 seconds. It was then retracted back into the injection chamber. The tunnel and model were changed prior to the next run.

DATA REDUCTION

The thermocouple heat-transfer data was reduced by the one dimensional thin wall equation

$$\dot{q} = Wcb \frac{dT_w}{dt}, \quad \text{BTu/ft}^2\text{-sec} \quad (1)$$

The theoretical stagnation-point heat-transfer rate calculated using Fay and Riddell's equation:

$$\dot{q}_{ot} = 0.94 (\rho_w \mu_w)^{0.5} (\rho_o' \mu_o' / \rho_w \mu_w)^{0.4} (H_o - H_w) (du/dx)^{0.5} \quad (2)$$

where

$$\mu = \frac{0.0232 \times 10^{-6} T^{0.5}}{1 + (220/T)}$$

and

$$\frac{du}{dx} = (1/r_s) [2RT(1 - p_\infty/p_o')]^{0.5}$$

The local heat-transfer coefficient for each thermocouple was computed by:

$$h_{local} = \frac{\dot{q}}{r(T_o - T_w)} \quad (3)$$

at $r = 0.9, 0.85$.

The ratio of the local heat-transfer coefficient to reference heat-transfer coefficient for each thermocouple was computed using:

$$h_{ref} = \frac{\dot{q}_{ot}}{T_o - T_w} \quad (4)$$

TABLE I

| TEST : OH-14 | | DATE : | |
|-----------------|---------------------------------------|-------------------------------------|--|
| TEST CONDITIONS | | | |
| M=8.0 | | | |
| BECKMAN No. | REYNOLDS NUMBER (Million per Foot) | TOTAL PRESSURE (pounds/sq. inch) | STAGNATION TEMPERATURE (degrees Fahrenheit) |
| 6060 | 1.0 | 200 | 870 |
| 6061 | 3.0 | 690 | 935 |
| 6062 | 4.0 | 960 | 975 |
| 6063 | 5.0 | 1200 | 965 |
| 6064 | 6.0 | 1465 | 960 |
| 6065 | 8.0 | 2000 | 965 |
| 6066 | 10.0 | 2485 | 965 |
| 6067 | 1.0 | 200 | 800 |
| 6068 | 3.0 | 700 | 900 |
| 6069 | 4.0 | 955 | 990 |
| 6070 | 4.5 | 1075 | 955 |
| 6122 | 5.0 | 1220 | 965 |
| 6123 | 5.5 | 1330 | 940 |
| 6124 | 6.0 | 1460 | 920 |
| 6125 | 8.0 | 2015 | 970 |
| 6126 | 10.0 | 2515 | 935 |

BALANCE UTILIZED: _____

| | CAPACITY: | ACCURACY: | COEFFICIENT TOLERANCE: |
|----|-----------|-----------|---------------------------|
| NF | _____ | _____ | _____ |
| SF | _____ | _____ | _____ |
| AF | _____ | _____ | _____ |
| PM | _____ | _____ | _____ |
| RM | _____ | _____ | _____ |
| YM | _____ | _____ | _____ |

COMMENTS:

TABLE I - (Concluded)

| TEST : OH-14 | DATE : | | |
|-----------------|---------------------------------------|-------------------------------------|--|
| TEST CONDITIONS | | | |
| $M = 8.0$ | | | |
| BECKMAN I.D. | REYNOLDS NUMBER (Million per Foot) | TOTAL PRESSURE (pounds/sq. inch) | STAGNATION TEMPERATURE (degrees Fahrenheit) |
| 6127 | 1.0 | 200 | 790 |
| 6128 | 3.0 | 705 | 910 |
| 6129 | 4.0 | 975 | 970 |
| 6130 | 5.0 | 1220 | 925 |
| 6131 | 6.0 | 1455 | 950 |
| 6132 | 8.0 | 2020 | 925 |
| 6133 | 10.0 | 2510 | 980 |
| 6134 | 2.0 | 460 | 810 |
| 6135 | 5.0 | 1210 | 975 |
| 6136 | 1.0 | 210 | 820 |
| 6137 | 3.0 | 700 | 925 |
| 6138 | 6.0 | 1460 | 965 |
| 6139 | 8.0 | 2020 | 965 |
| 6140 | 2.0 | 460 | 900 |
| | | | |
| | | | |

BALANCE UTILIZED: _____

| | CAPACITY: | ACCURACY: | COEFFICIENT TOLERANCE: |
|----|-----------|-----------|------------------------|
| NF | _____ | _____ | _____ |
| SF | _____ | _____ | _____ |
| AF | _____ | _____ | _____ |
| PM | _____ | _____ | _____ |
| RM | _____ | _____ | _____ |
| YM | _____ | _____ | _____ |

COMMENTS:

TABLE II.

[illegible]

TABLE III MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - B₂₂

GENERAL DESCRIPTION : Fuselage Configuration 3A

MODEL SCALE: 0.006

DRAWING NUMBER : VLCO-000147B

| DIMENSIONS : | FULL SCALE | MODEL SCALE |
|------------------------|-------------------|-------------------|
| Length In. | <u>1290.3</u> | <u>7.742</u> |
| Max Width, In. | <u>267.6</u> | <u>1.606</u> |
| Max Depth, In. | <u>244.5</u> | <u>1.467</u> |
| Fineness Ratio | <u>4.846</u> | <u>4.846</u> |
| Area - Ft ² | <u> </u> | <u> </u> |
| Max. Cross-Sectional | <u>386.67</u> | <u>0.0139</u> |
| Planform | <u> </u> | <u> </u> |
| Wetted | <u> </u> | <u> </u> |
| Base | <u> </u> | <u> </u> |

TABLE III (Cont'd)

MODEL COMPONENT : CANOPY - C₇

GENERAL DESCRIPTION : Configuration 3

MODEL SCALE: 0.006

DRAWING NUMBER : VL70-000139

| DIMENSIONS : | FULL SCALE | MODEL SCALE |
|--|-------------------|-------------------|
| Length($X_0 = 433$ to $X_C = 670$), In. FS | <u>237.00</u> | <u>1.422</u> |
| Max Width | <u> </u> | <u> </u> |
| Max Depth | <u> </u> | <u> </u> |
| Fineness Ratio | <u> </u> | <u> </u> |
| Area | <u> </u> | <u> </u> |
| Max. Cross-Sectional | <u> </u> | <u> </u> |
| Planform | <u> </u> | <u> </u> |
| Wetted | <u> </u> | <u> </u> |
| Base | <u> </u> | <u> </u> |

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TABLE III (Cont'd)

MODEL COMPONENT : BODY FLAP - F₁

GENERAL DESCRIPTION : Configuration 3

MODEL SCALE: 0.006

DRAWING NUMBER : VL70-000139

| DIMENSIONS : | FULL SCALE | MODEL SCALE |
|------------------------|-------------------|-------------------|
| Length , In. | <u>84.70</u> | <u>0.508</u> |
| Max Width , In. | <u>267.6</u> | <u>1.606</u> |
| Max Depth | <u> </u> | <u> </u> |
| Fineness Ratio | <u> </u> | <u> </u> |
| Area - Ft ² | <u> </u> | <u> </u> |
| Max. Cross-Sectional | <u> </u> | <u> </u> |
| Planform | <u>142.5</u> | <u>0.005</u> |
| Wetted | <u> </u> | <u> </u> |
| Base | <u>38.0958</u> | <u>0.0014</u> |

TABLE III (Cont'd)

MODEL COMPONENT : OMS POD - M₁

GENERAL DESCRIPTION : Configuration 3

NOTE: M₁ identical to M₂, except intersection to fuselage.

MODEL SCALE: 0.006

DRAWING NUMBER : VL70-000139

| DIMENSIONS : | FULL SCALE | MODEL SCALE |
|----------------------|-------------------|-------------------|
| Length, In. | <u>346.0</u> | <u>2.076</u> |
| Max Width, In. | <u>108.0</u> | <u>0.648</u> |
| Max Depth, In. | <u>113.0</u> | <u>0.678</u> |
| Fineness Ratio | <u> </u> | <u> </u> |
| Area | <u> </u> | <u> </u> |
| Max. Cross-Sectional | <u> </u> | <u> </u> |
| Planform | <u> </u> | <u> </u> |
| Wetted | <u> </u> | <u> </u> |
| Base | <u> </u> | <u> </u> |

TABLE III (Cont'd)

MODEL COMPONENT: VERTICAL - V₇GENERAL DESCRIPTION: Centerline vertical tail, doublewedge airfoil
with rounded leading edge.NOTE: Same as V₅, but with manipulator housing removed.MODEL SCALE: 0.006DRAWING NUMBER: VL70-000139

| DIMENSIONS: | FULL SCALE | MODEL SCALE |
|-------------------------------|----------------|---------------|
| TOTAL DATA | | |
| Area (Theo) - Ft ² | | |
| Planform | <u>425.92</u> | <u>0.0153</u> |
| Span (Theo) - In. | <u>315.72</u> | <u>1.894</u> |
| Aspect Ratio | <u>1.675</u> | <u>1.675</u> |
| Rate of Taper | <u>0.507</u> | <u>0.507</u> |
| Taper Ratio | <u>0.404</u> | <u>0.404</u> |
| Sweep-Back Angles, Degrees. | | |
| Leading Edge | <u>45.000</u> | <u>45.000</u> |
| Trailing Edge | <u>26.249</u> | <u>26.249</u> |
| 0.25 Element Line | <u>41.130</u> | <u>41.130</u> |
| Chords: | | |
| Root (Theo) WP | <u>268.50</u> | <u>1.611</u> |
| Tip (Theo) WP | <u>108.47</u> | <u>0.651</u> |
| MAC | <u>199.81</u> | <u>1.199</u> |
| Fus. Sta. of .25 MAC | <u>1463.50</u> | <u>8.781</u> |
| W.P. of .25 MAC | <u>635.522</u> | <u>3.813</u> |
| B.L. of .25 MAC | <u>0.0</u> | <u>0.0</u> |
| Airfoil Section | | |
| Leading Wedge Angle - Deg. | <u>10.00</u> | <u>10.00</u> |
| Trailing Wedge Angle - Deg. | <u>14.920</u> | <u>14.920</u> |
| Leading Edge Radius | <u>2.00</u> | <u>0.012</u> |
| Void Area | <u>13.17</u> | <u>0.005</u> |
| Blanketed Area | <u>0.0</u> | <u>0.0</u> |

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TABLE III (Concluded)

MODEL COMPONENT: WING-W₁₁₁GENERAL DESCRIPTION: Configuration 3A.NOTE: Identical to W₁₀₇ except lowered 3.5" and increased cuff incidence.MODEL SCALE: 0.006

TEST NO.

DWG. NO. VL70-000147BDIMENSIONS:FULL-SCALEMODEL SCALETOTAL DATAArea (Theo.) Ft^2
Planform

Span (Theo) In.

Aspect Ratio

Rate of Taper

Taper Ratio

Dihedral Angle, degrees

Incidence Angle, degrees

Aerodynamic Twist, degrees

Sweep Back Angles, degrees

Leading Edge

Trailing Edge

0.25 Element Line

Chords:

Root (Theo) B.P.O.O.

Tip, (Theo) B.P.

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

EXPOSED DATAArea (Theo) Ft^2

Span, (Theo) In. BP108

Aspect Ratio

Taper Ratio

Chords

Root BP108

Tip 1.00 $\frac{b}{2}$

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

Airfoil Section (Rockwell Mod NASA)

XXXX-64

Root $\frac{b}{2}$ =Tip $\frac{b}{2}$ =

Data for (1) of (2) Sides

Leading Edge Cuff

Planform Area Ft^2

Leading Edge Intersects Fus M. L. @ Sta

Leading Edge Intersects Wing @ Sta

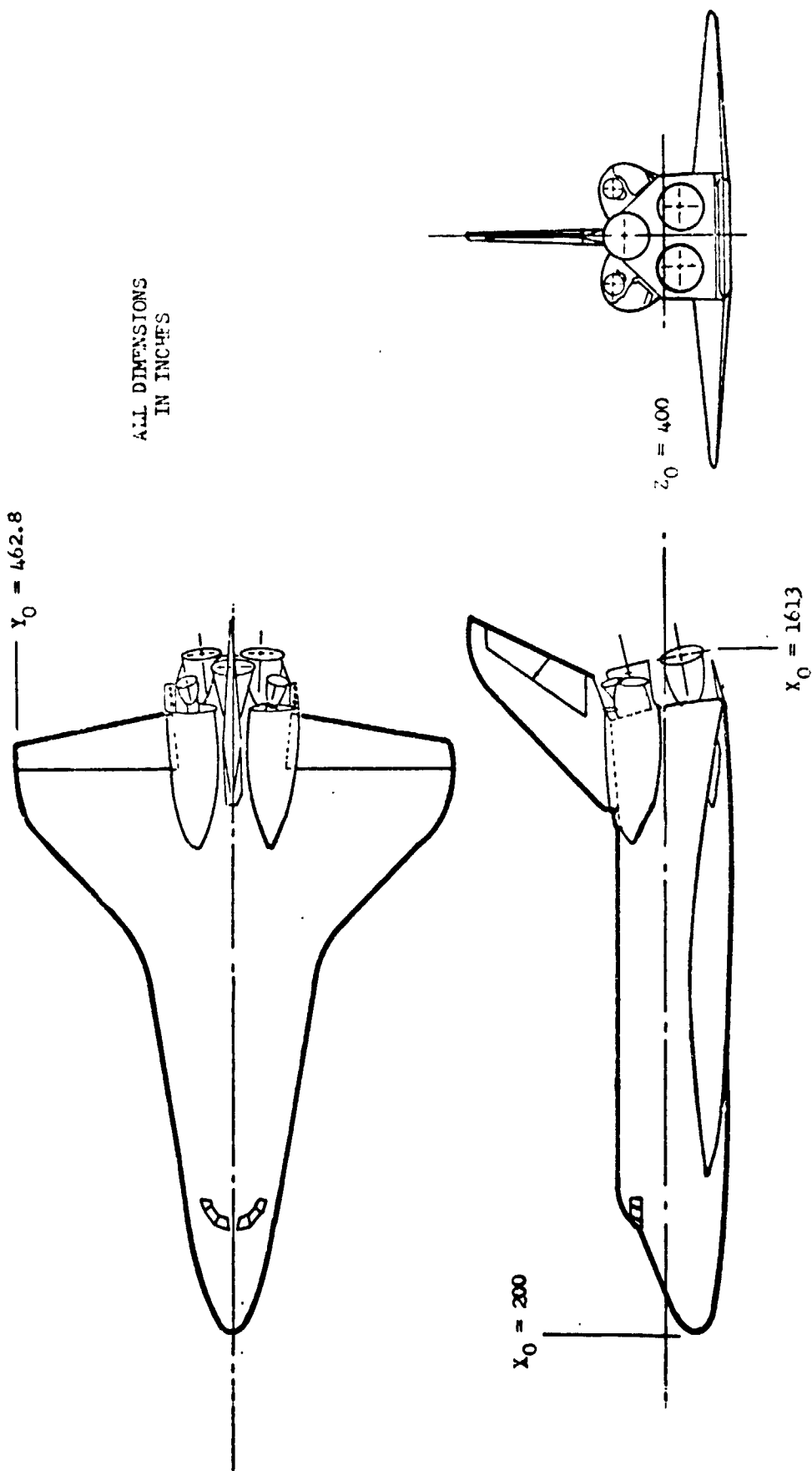
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TABLE IV. ORBITER THERMOCOUPLE LOCATIONS AND SKIN THICKNESS

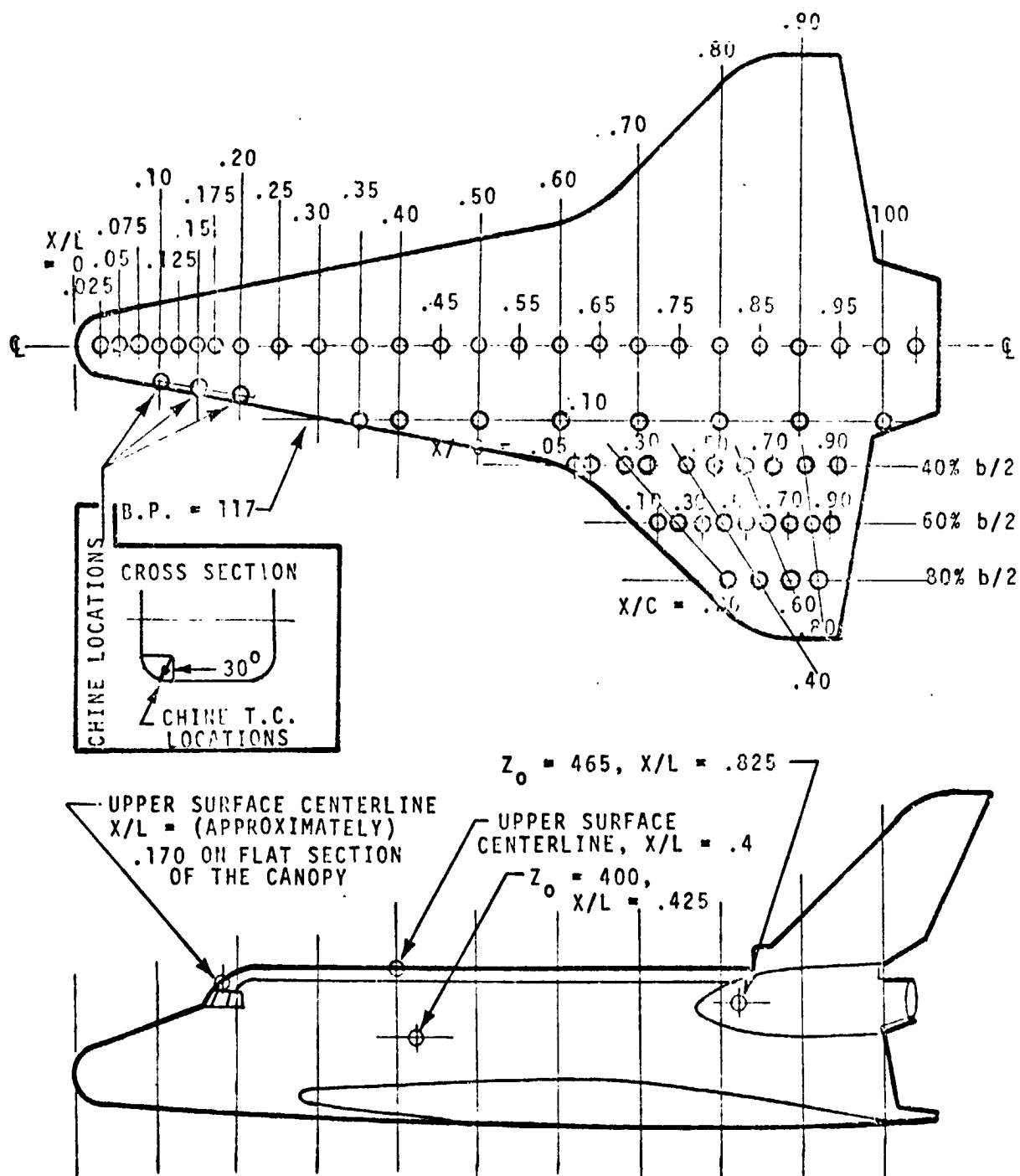
| T/C NO. | SKIN THICKNESS | LOCATION | | MODEL PART | T/C NO. | SKIN THICKNESS | LOCATION | | MODEL PART |
|------------|-------------------|-------------------------------------|------|-----------------------|------------|-------------------|-------------------------------------|------|------------------|
| | | DIST FROM X ₀ = 238.0 | X L | | | | DIST FROM X ₀ = 238.0 | X L | |
| 1 | .035 | .194 | .025 | Underside Fuselage | 34 | .034 | 2.223 | .30 | Body Sidewall |
| 2 | .035 | .387 | .05 | | 35 | .033 | 2.223 | .30 | |
| 3 | .035 | .581 | .075 | | 36 | .034 | 2.323 | .30 | |
| 4 | .034 | .774 | .10 | | 37 | .035 | 3.097 | .40 | |
| 5 | .033 | .968 | .125 | | 38 | .034 | 3.097 | .40 | |
| 6 | .033 | 1.161 | .150 | | 39 | .035 | 3.097 | .40 | |
| 7 | .034 | 1.355 | .175 | | 40 | .035 | 3.871 | .50 | |
| 8 | .034 | 1.548 | .20 | | 41 | .034 | 3.871 | .50 | |
| 9 | .035 | 1.935 | .25 | | 42 | .035 | 3.871 | .50 | |
| 10 | .035 | 2.323 | .30 | | 43 | .035 | 4.645 | .60 | |
| 11 | .035 | 2.710 | .35 | | 44 | .033 | 4.645 | .60 | |
| 12 | .034 | 3.097 | .40 | | 45 | .035 | 4.645 | .60 | |
| 13 | .034 | 3.484 | .45 | | 46 | .034 | 5.419 | .70 | |
| 14 | .035 | 3.871 | .50 | | 47 | .032 | 5.419 | .70 | |
| 15 | .035 | 4.258 | .55 | | 48 | .035 | 5.419 | .70 | |
| 16 | .035 | 4.645 | .60 | | 49 | .038 | 6.387 | .825 | OMS Pod |
| 17 | .035 | 5.032 | .65 | | 50 | .035 | .774 | .10 | Chine |
| 18 | .035 | 5.419 | .70 | | 51 | .035 | 1.161 | .15 | Chine |
| 19 | .035 | 5.806 | .75 | | 52 | .035 | 1.548 | .20 | Chine |
| 20 | .035 | 6.193 | .80 | | 53 | .035 | 1.316 | .170 | Canopy |
| 21 | .035 | 6.581 | .85 | | 54 | .035 | 3.290 | .425 | Mid Body |
| 22 | .035 | 6.968 | .90 | | | | | | |
| 23 | .036 | 7.355 | .95 | | | | | | |
| 24 | .036 | 7.742 | 1.00 | | | | | | |
| 25 | .036 | 8.051 | 1.04 | | | | | | |
| 26 | .030 | 2.710 | .35 | Underside Fuselage | | | | | |
| 27 | .027 | 3.097 | .40 | | | | | | |
| 28 | .027 | 3.871 | .50 | | | | | | |
| 29 | .027 | 4.645 | .60 | | | | | | |
| 30 | .027 | 5.419 | .70 | | | | | | |
| 31 | .028 | 6.193 | .80 | | | | | | |
| 32 | .031 | 6.968 | .90 | | | | | | |
| 33 | .036 | 7.742 | 1.00 | | | | | | |

TABLE IV. (Concluded)

| I/C NO. | SKIN | LOCATION | | | MODEL PART |
|------------|-------|---------------|------------|---------------|---------------|
| | THICK | DIST FR LE | % CHORD | $\frac{b}{c}$ | |
| 55 | .031 | .149 | .05 | 40% | Wing |
| 56 | .030 | .298 | .10 | 40% | BP=127.33 |
| 57 | .030 | .598 | .20 | 40% | |
| 58 | .029 | .896 | .30 | 40% | |
| 59 | .028 | 1.195 | .40 | 40% | |
| 60 | .028 | 1.494 | .50 | 40% | |
| 61 | .028 | 1.793 | .60 | 40% | |
| 62 | .028 | 2.092 | .70 | 40% | |
| 63 | .029 | 2.390 | .80 | 40% | |
| 64 | .029 | 2.689 | .90 | 40% | ↓ |
| 65 | .034 | .215 | .10 | 60% | BP=281.00 |
| 66 | .032 | .430 | .20 | 60% | |
| 67 | .031 | .644 | .30 | 60% | |
| 68 | .030 | .859 | .40 | 60% | |
| 69 | .030 | 1.074 | .50 | 60% | |
| 70 | .030 | 1.289 | .60 | 60% | |
| 71 | .030 | 1.504 | .70 | 60% | |
| 72 | .029 | 1.718 | .80 | 60% | |
| 73 | .029 | 1.933 | .90 | 60% | ↓ |
| 74 | .034 | .298 | .20 | 80% | BP=314.67 |
| 75 | .034 | .595 | .40 | 80% | |
| 76 | .034 | .893 | .60 | 80% | |
| 77 | .035 | 1.190 | .80 | 80% | |



(a) Orbiter Three-View.
Figure 1. - Model Sketches.



(b) Orbiter Instrumentation.
 Figure 1. - Concluded.

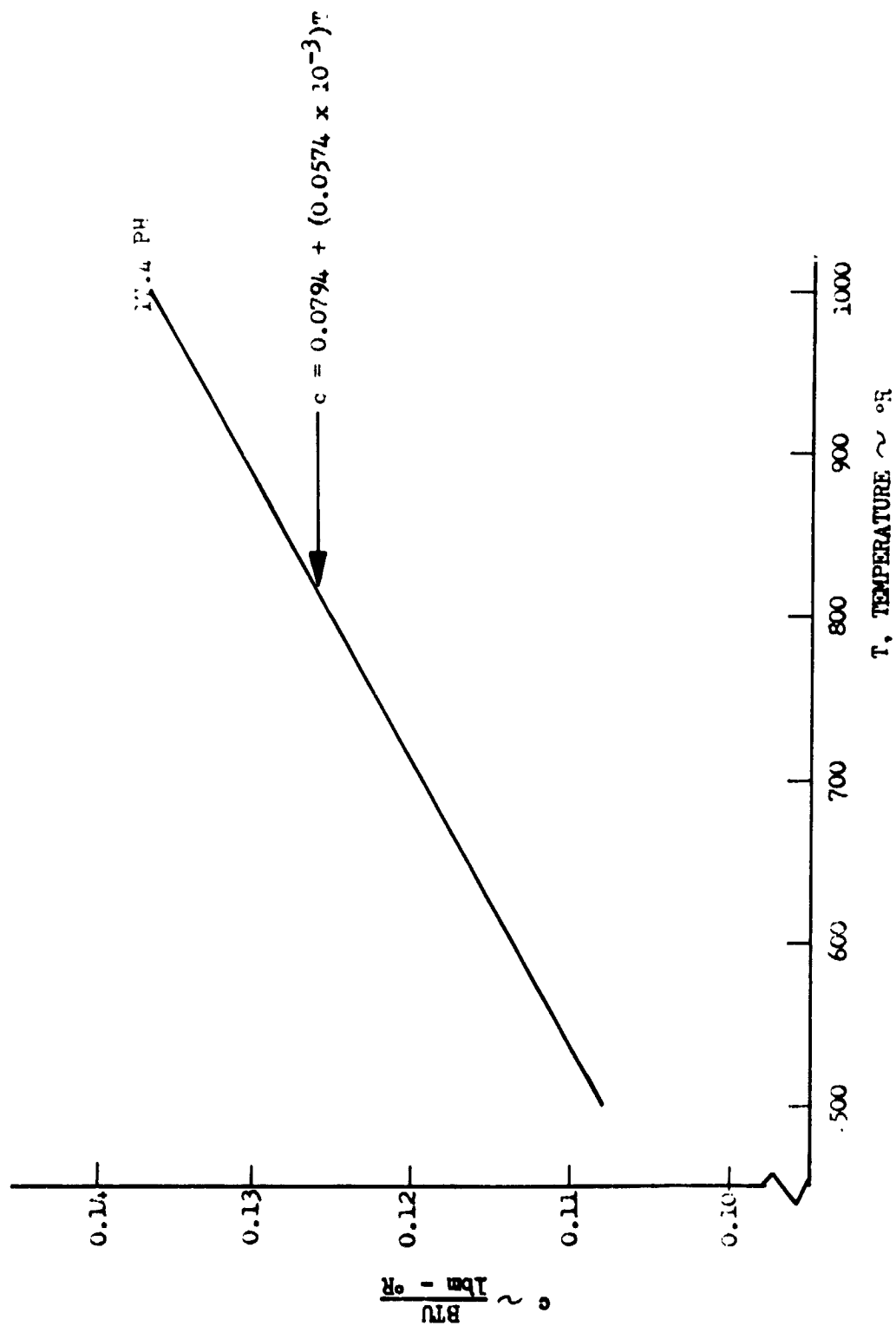


Figure 2. - Specific heat variation with temperature for 17-4 PH stainless steel.



Figure 3. - Schlieren Photograph at 25 degrees angle of attack.

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DATA FIGURES

(RQLB02) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

PARAMETRIC VALUES
ALPHA MACH
20.000 8.000
BETA .000

SYMBOL B.P. RV/L
117.000 1.000
MAN/MT .850

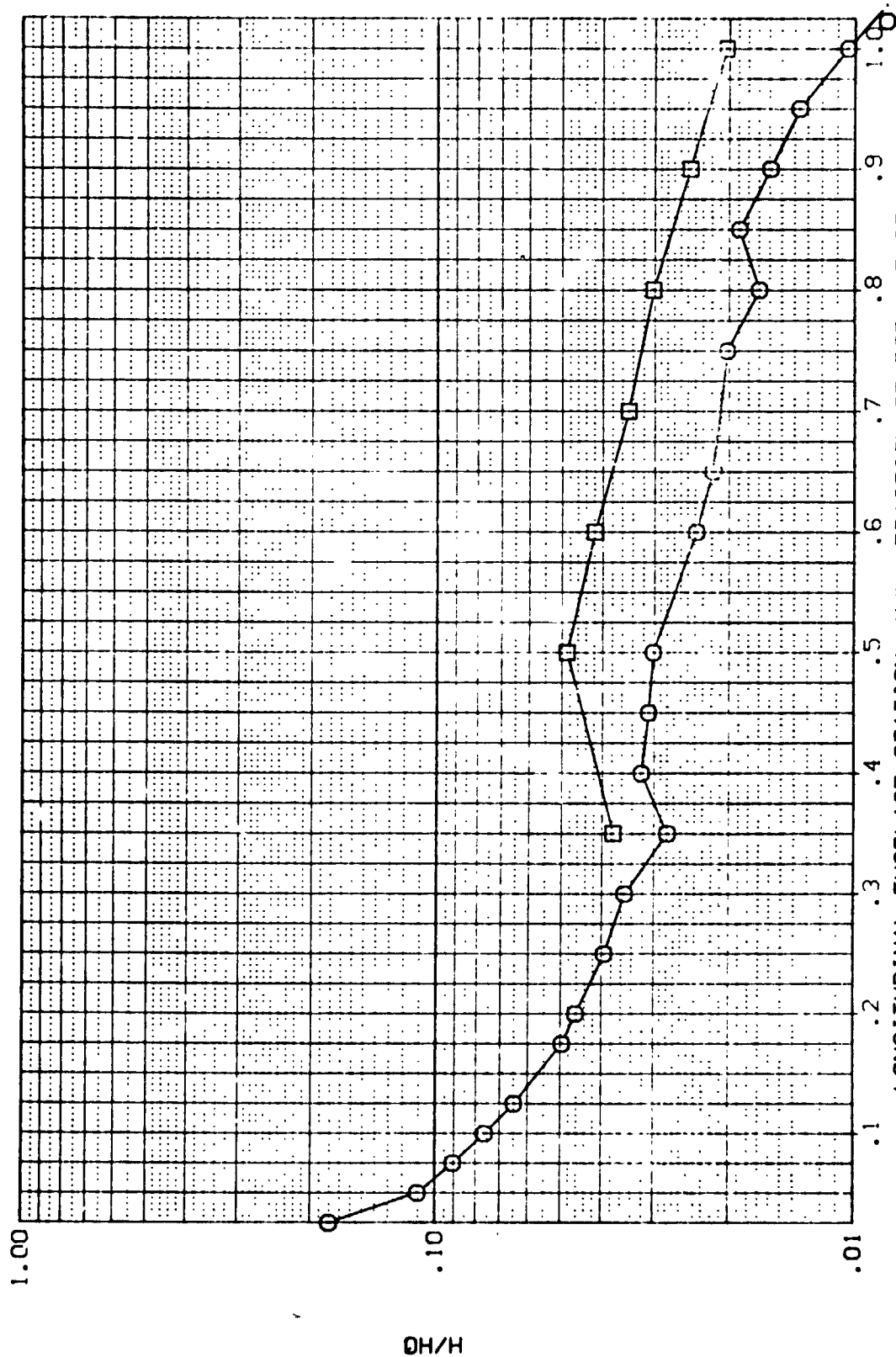


FIG 4 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK

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(RQLB02) OH14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. 117.000 HAV/NT .900 RN/L 1.000 ALPHA MACH 20.000 BETA 8.000 .000

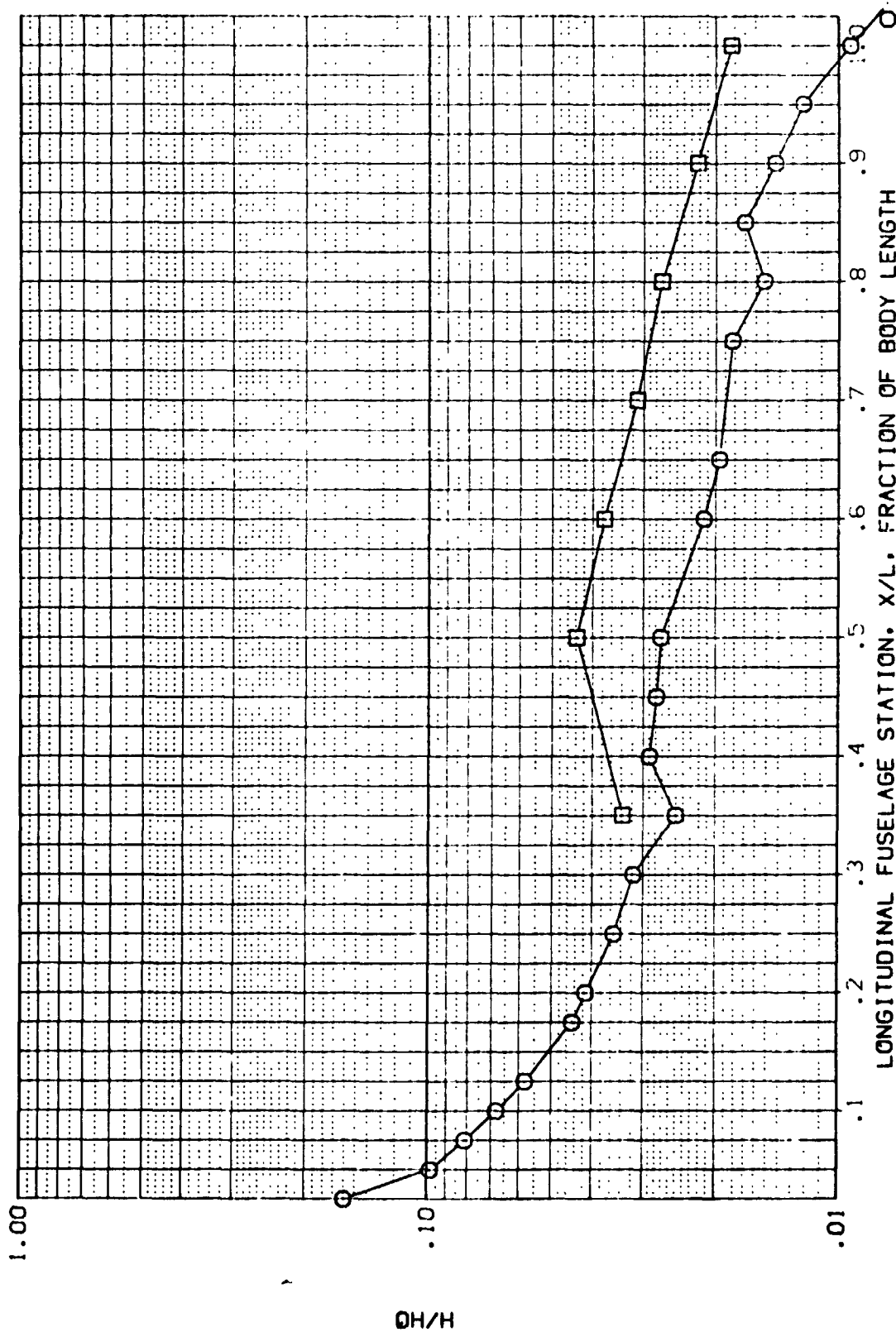


FIG 4 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK

(RQLB02) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYNBO. B.P. 117.000 HAV/HT .850 RN/L 3.000 ALPHA MACH 20.000 BETA 8.000 .000

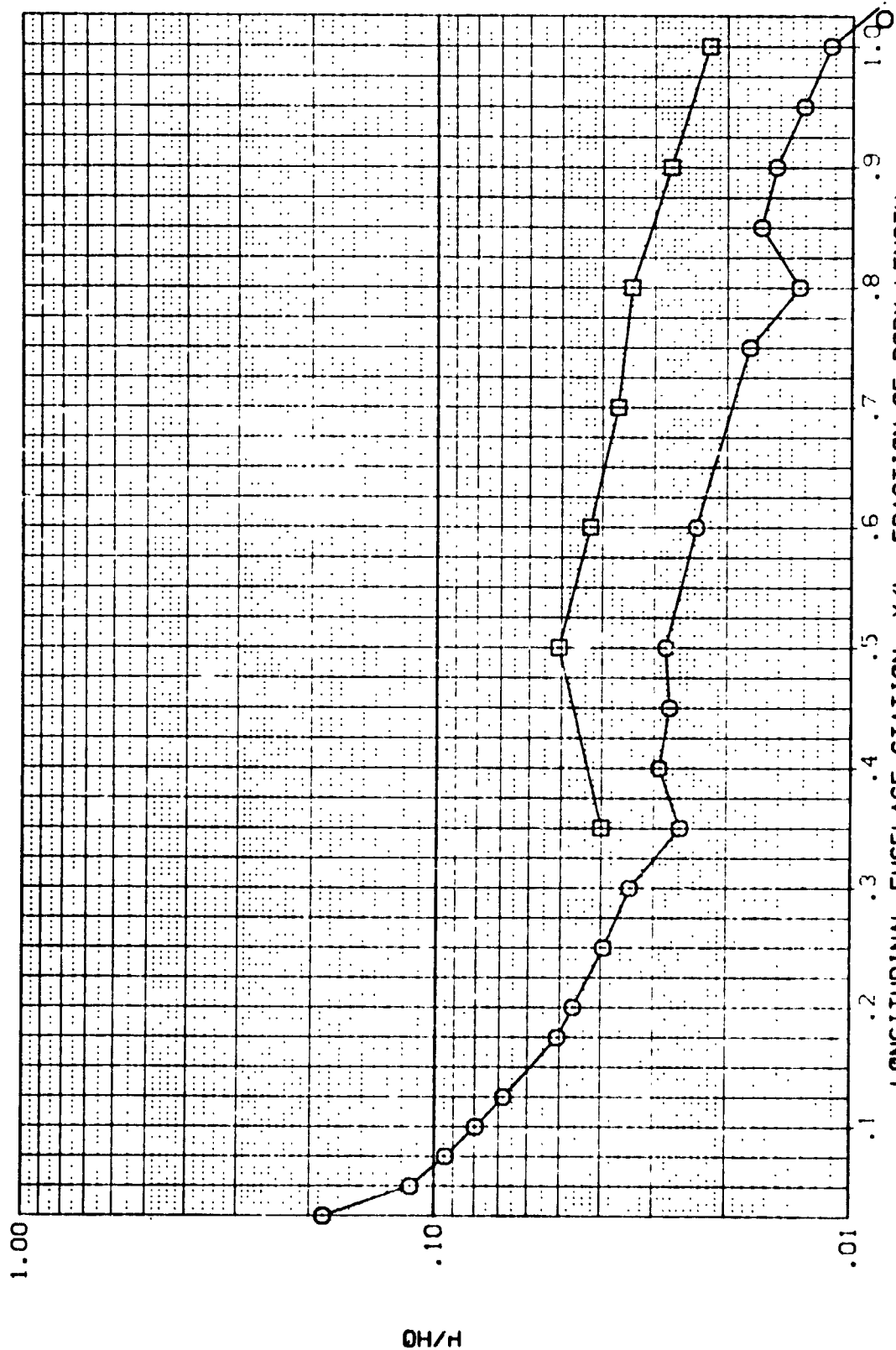


FIG 4 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK

(RQLB02) 0H14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. 117.000
 MAW/MT 3.000
 RN/L 1.000

PARAMETRIC VALUES
 ALPHA 20.000
 MACH 8.000
 BETA .000

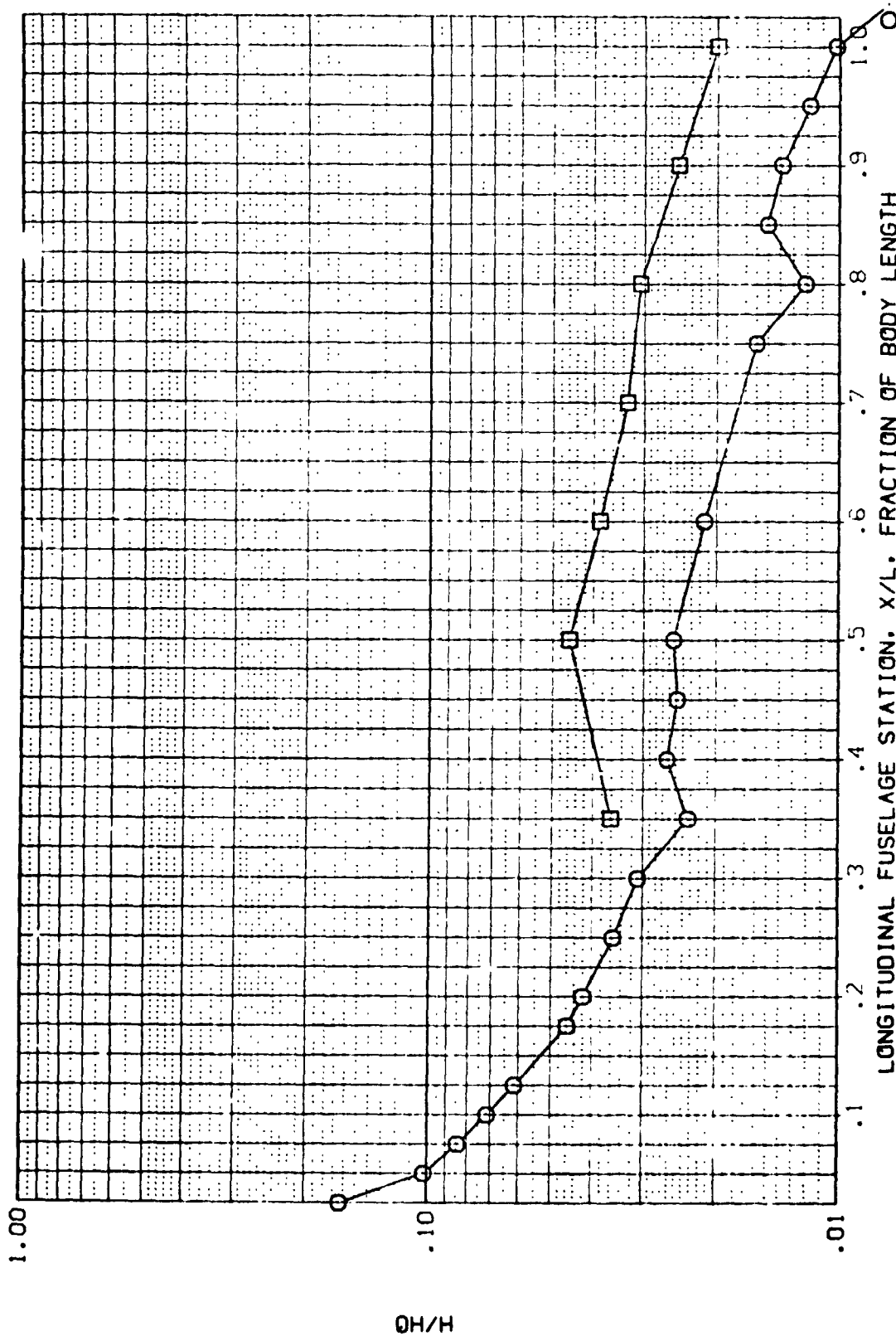


FIG 4 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE LOWER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK

(RQLB02) OH14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. 117.000 HAV/WT .850 RV/L 6.000 ALPHA MACH .000 20.000 BETA 8.000

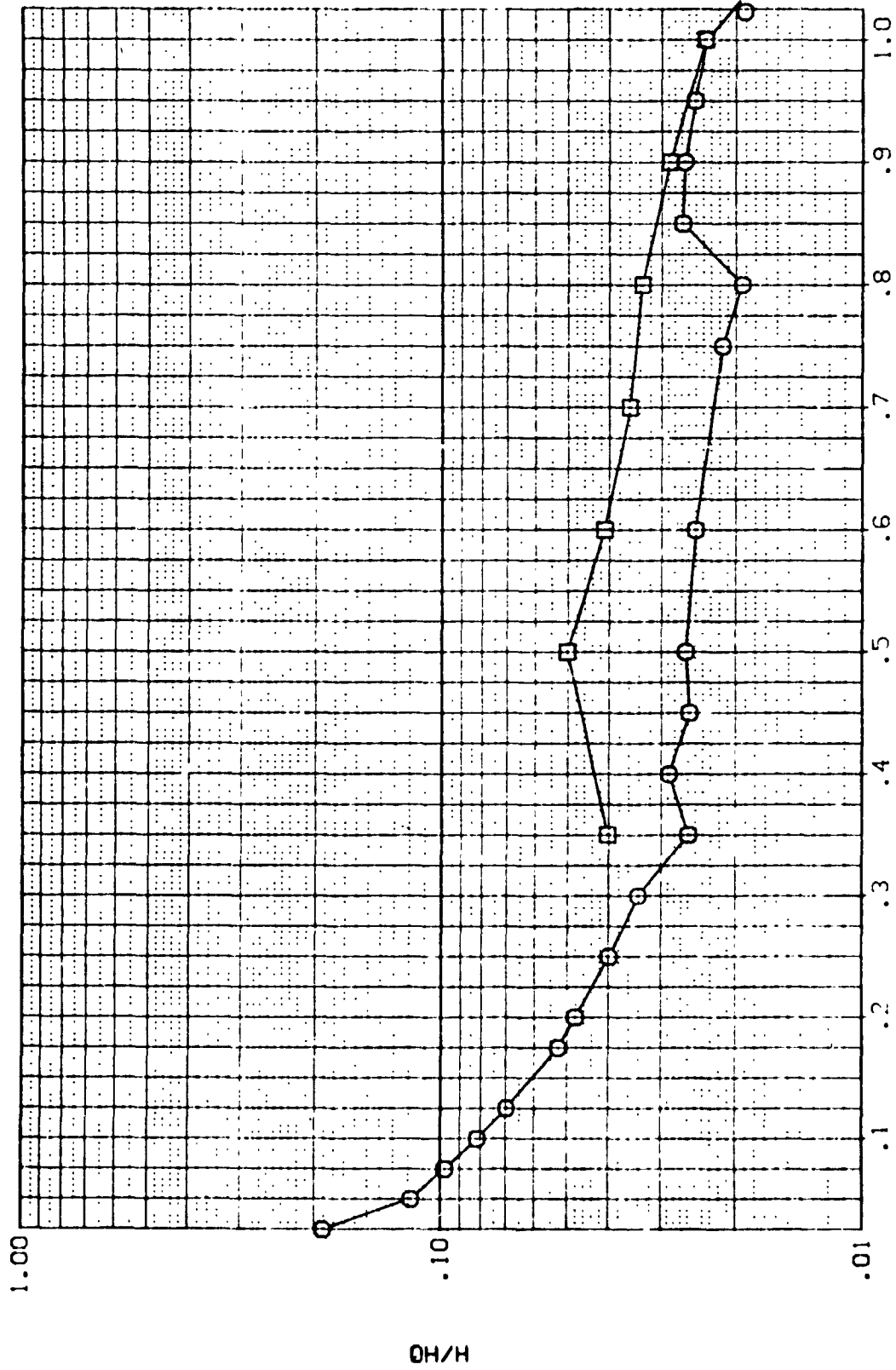


FIG 4 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK

(RQL802) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. HAW/HI? RV/L
 117.000 .000 6.000

PARAMETRIC VALUES
 ALPHA MACH 20.000 BETA .000

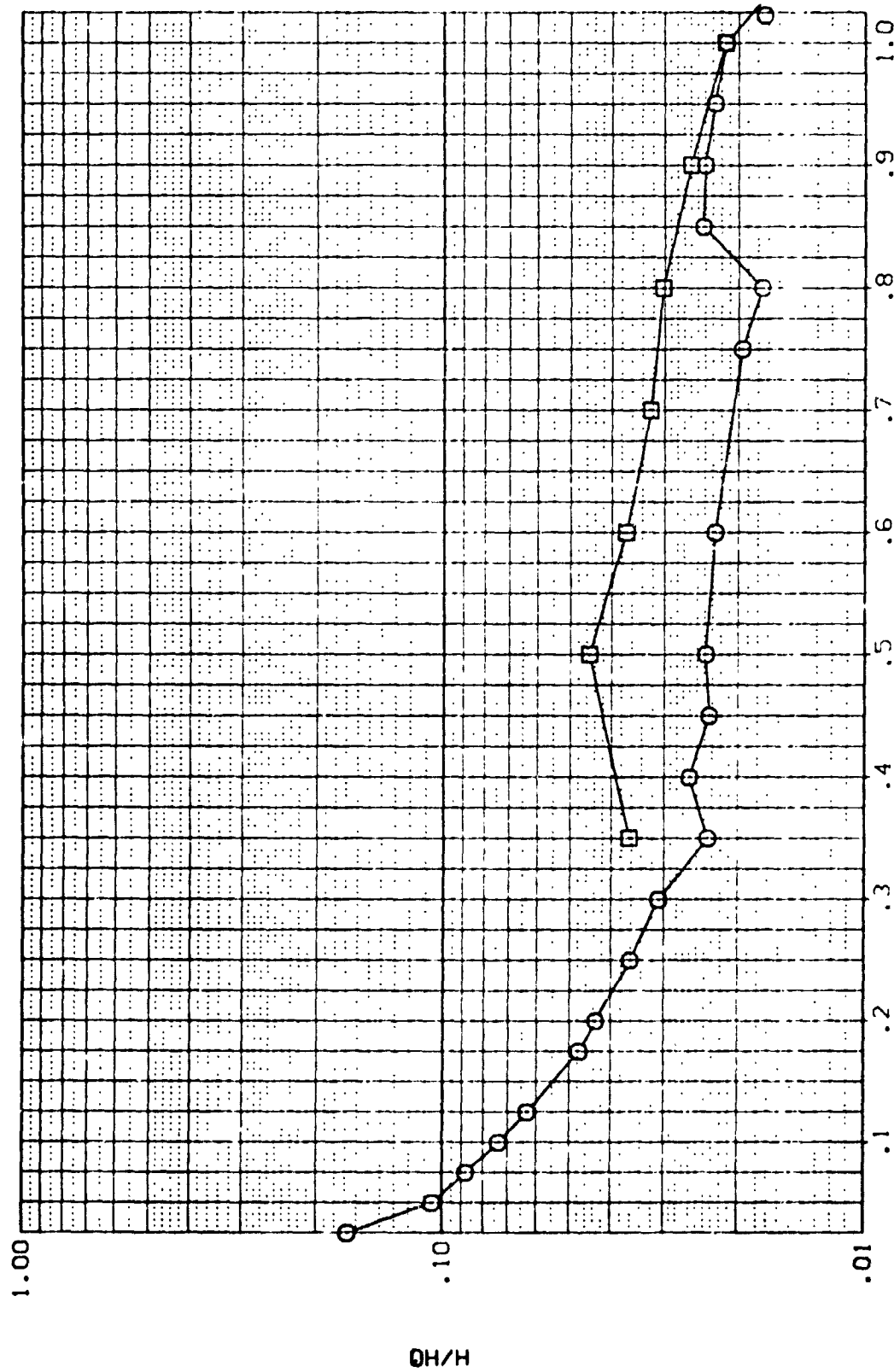


FIG 4 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE LOWER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK

{RQLB02} OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

PARAMETRIC VALUES
ALPHA 20.000
MACH 8.000

SYMBOL B.P. 117.000
HAW/MT 850
RN/L 9.000

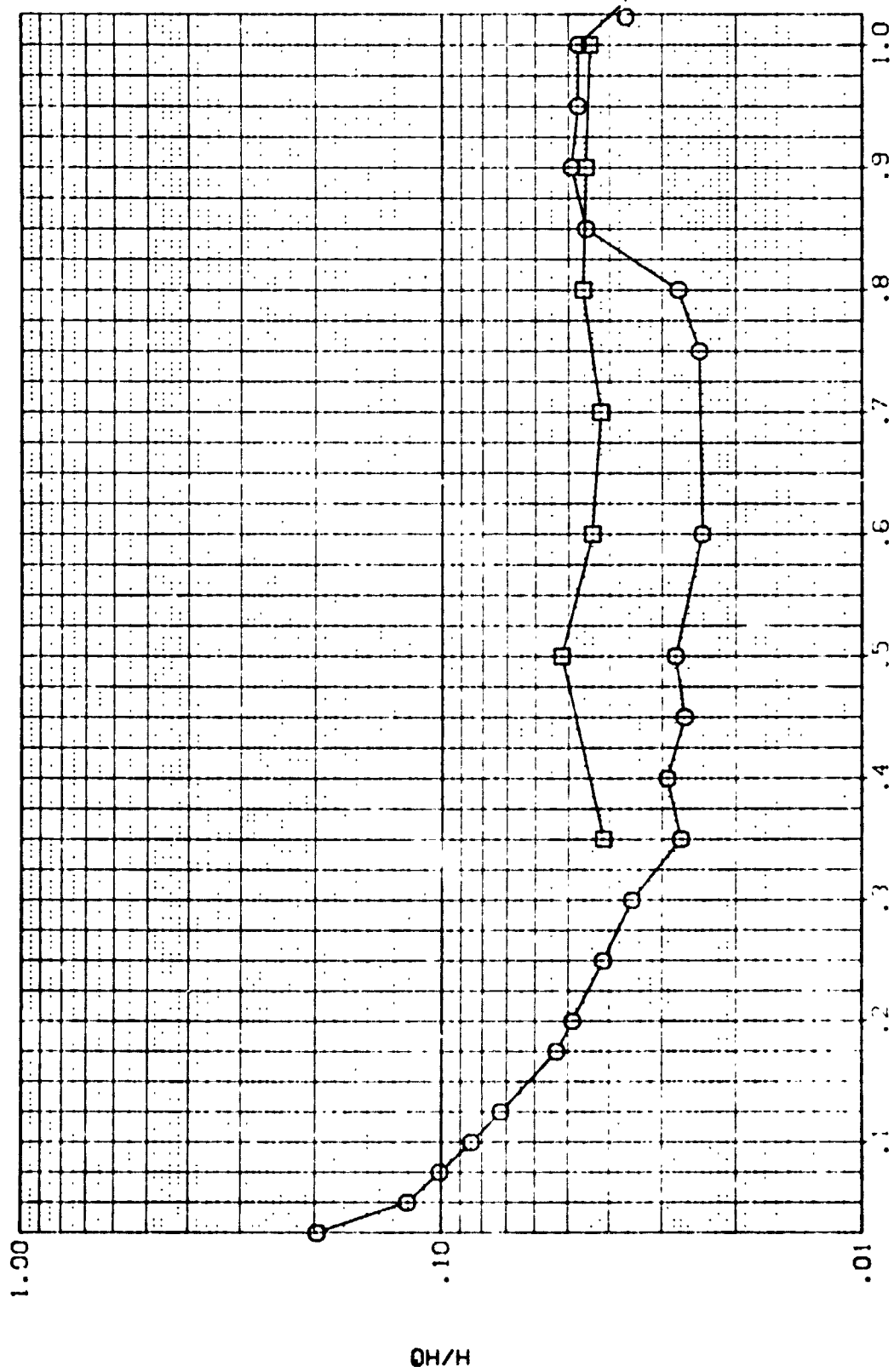


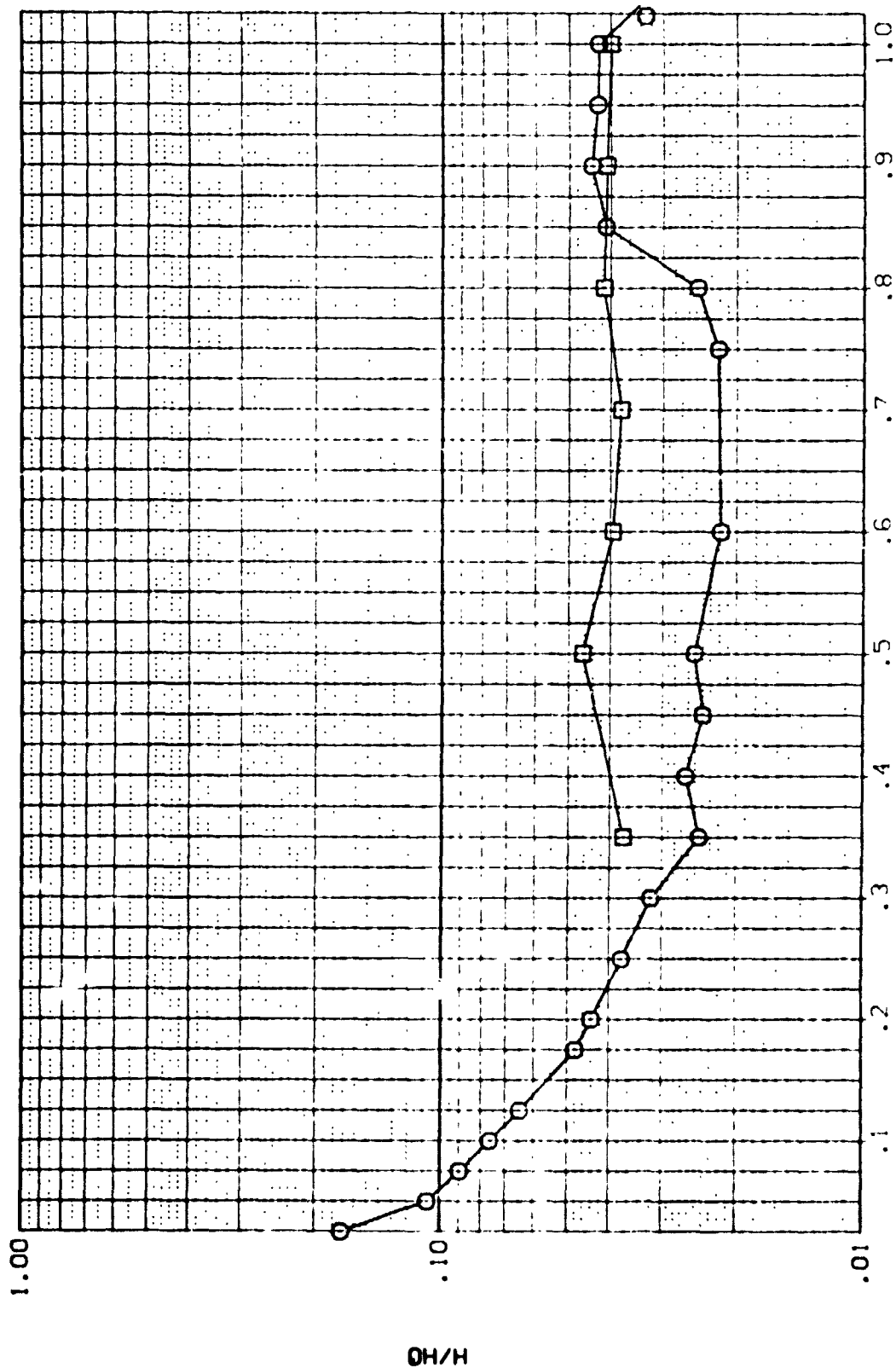
FIG 4 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK

(ROL802) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P.
117.000

MAW/MT .900
RN/L 8.000

PARAMETRIC VALUES
ALPHA MACH
20.000 8.000
BETA .000



LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
FIG 4 FUSELAGE LOWER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK

OH14 B22C7FSM4V7W111 WING LOWER SURFACE

(ROLW02)
SYMBOL 2Y/B
-400
-500
-600

MAV/WT
-850
-1.000

PARAMETRIC VALUES
20.000 BETA
8.000

ALPHA
MACH

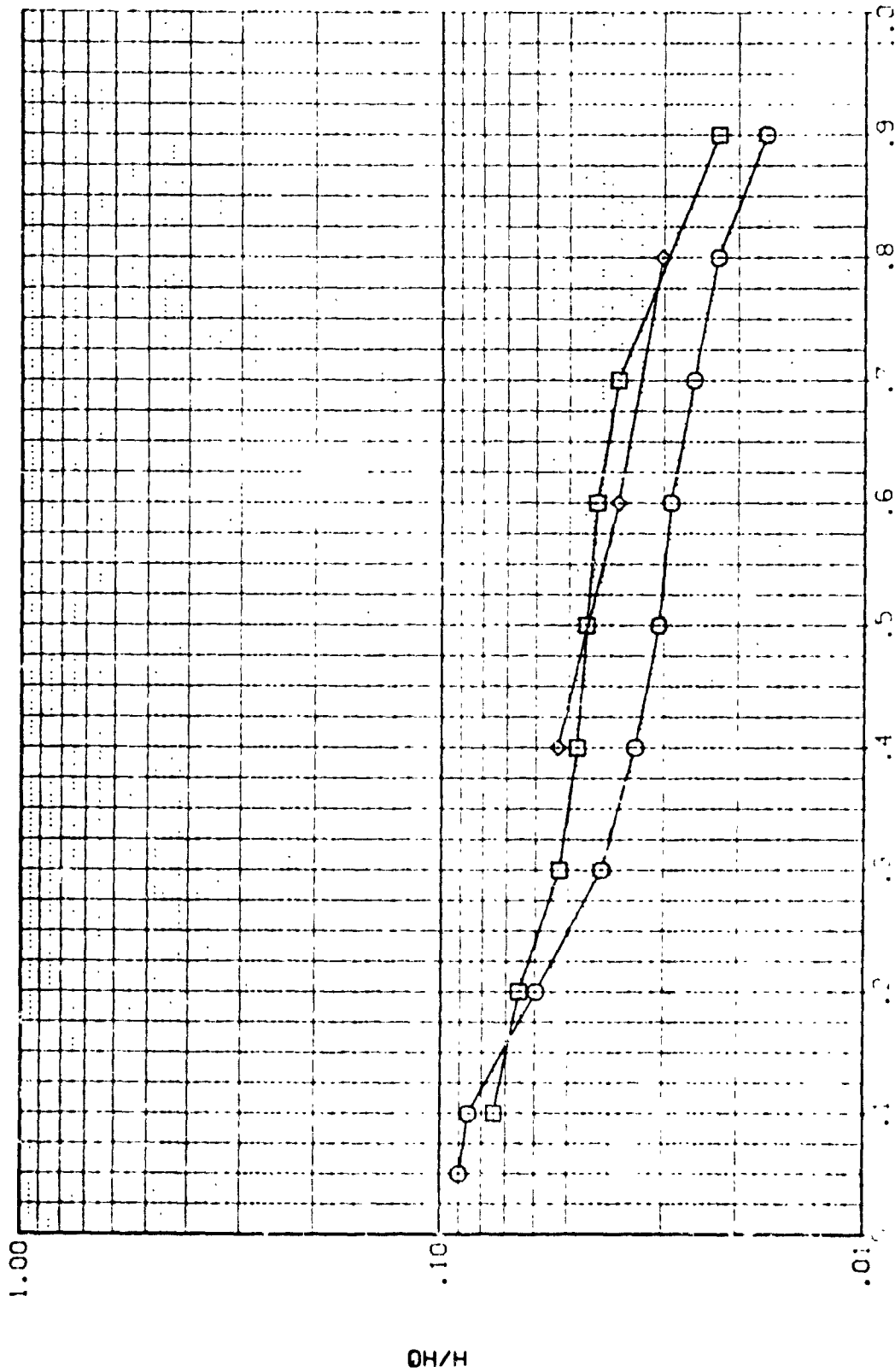


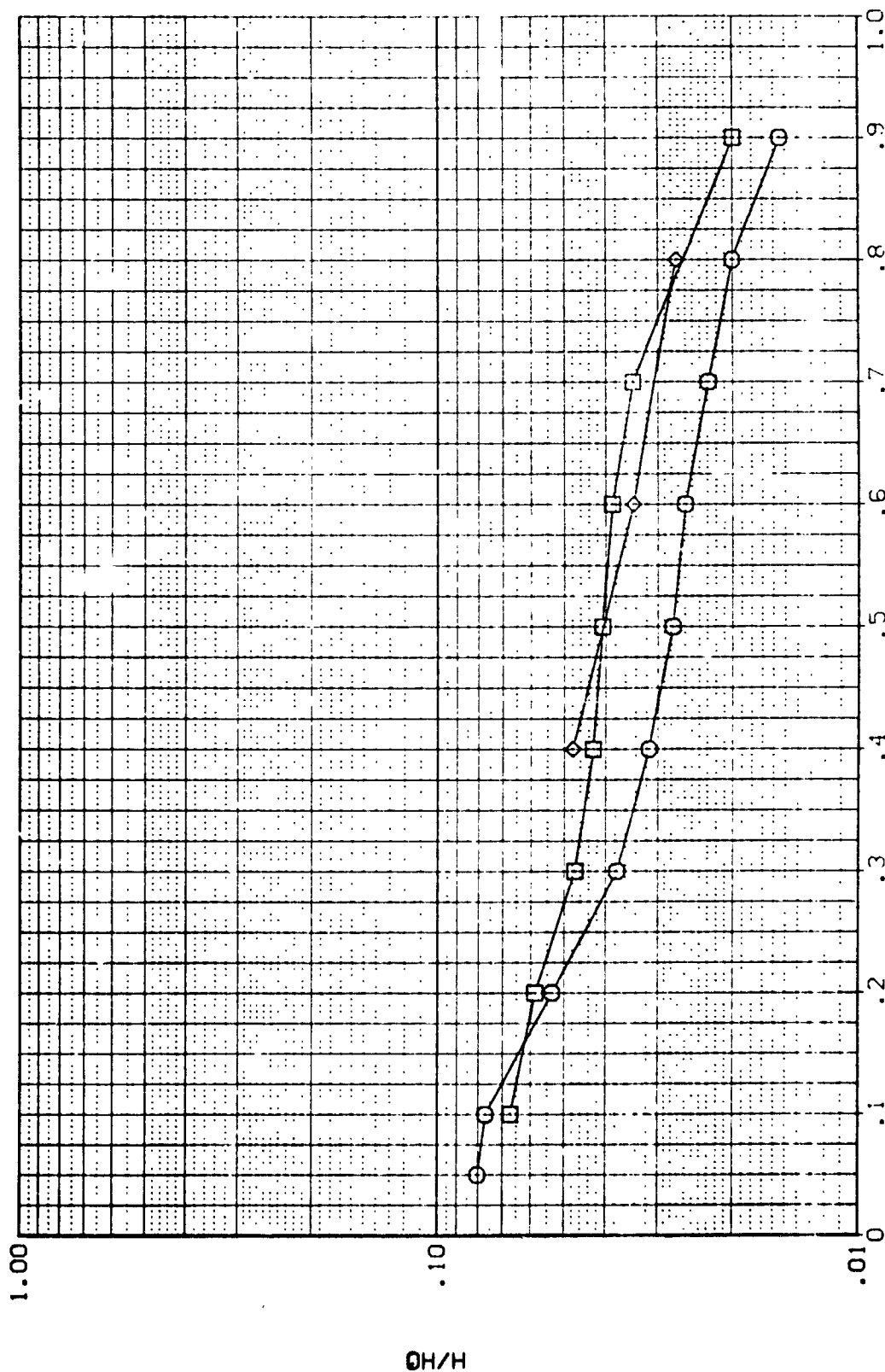
FIG 5 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
WING LOWER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK

(R0LW02) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL 21/B
 400
 600
 800

HAY/MT
 .900 1.000

PARAMETRIC VALUES
 ALPHA 20.000
 HACH 8.000 BETA .000

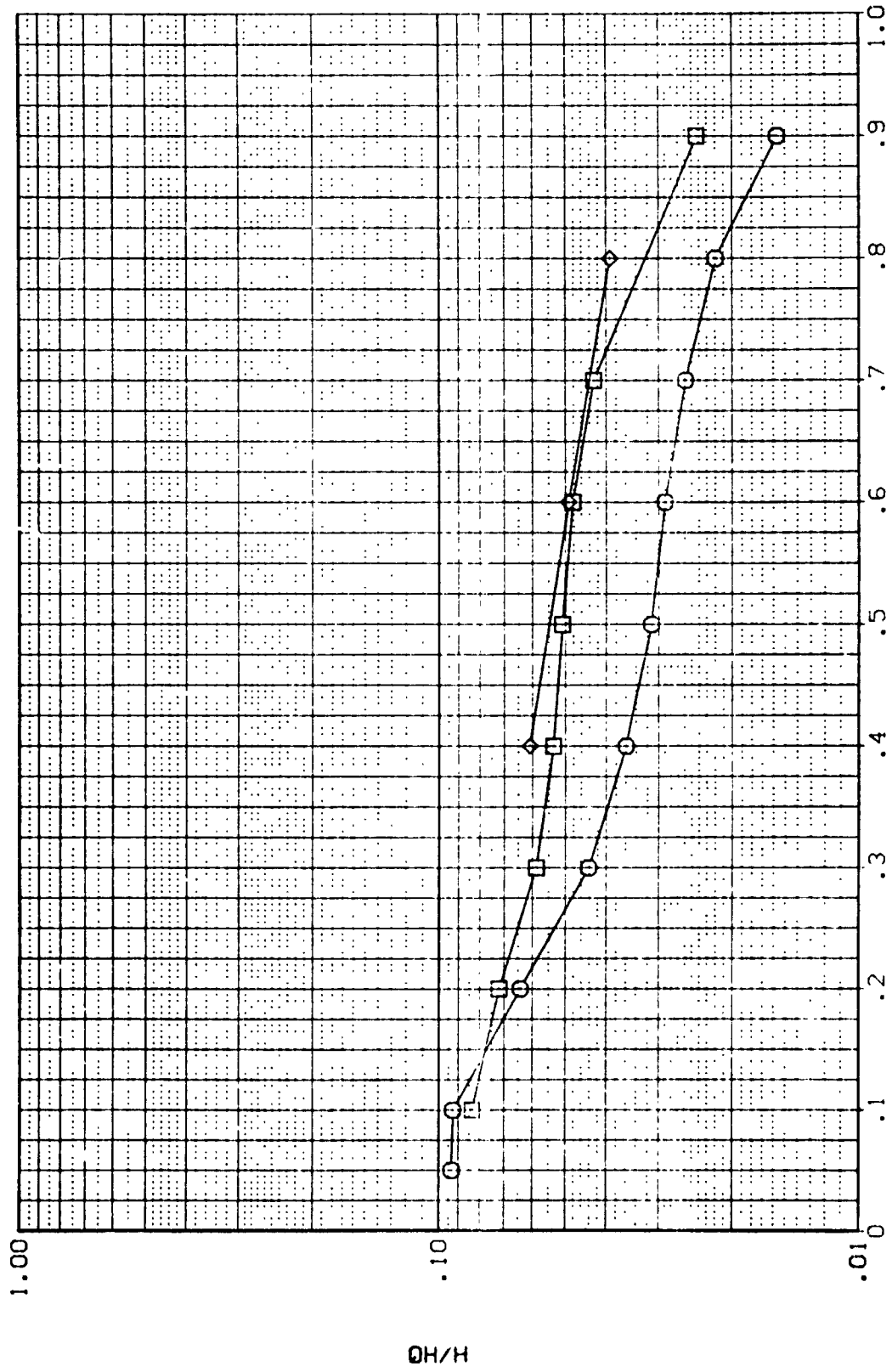


LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD

FIG 5 WING LOWER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK

(RQLW02) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

| | | | | | |
|--------|------|--------|-------|-------|-------------------|
| SYMBOL | 2Y/B | MAN/MT | RN/L | ALPHA | PARAMETRIC VALUES |
| | .400 | .850 | 3.000 | MACH | 20.000 |
| | .600 | | | | 8.000 |
| | .800 | | | | .000 |



LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD

FIG 5 WING LOWER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK

(RQLW02) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL 2Y/B
 0.400
 0.600
 0.800

MAW/HT 0.900
 RN/L 3.000

ALPH/MACH
 20.000
 8.000
 .000

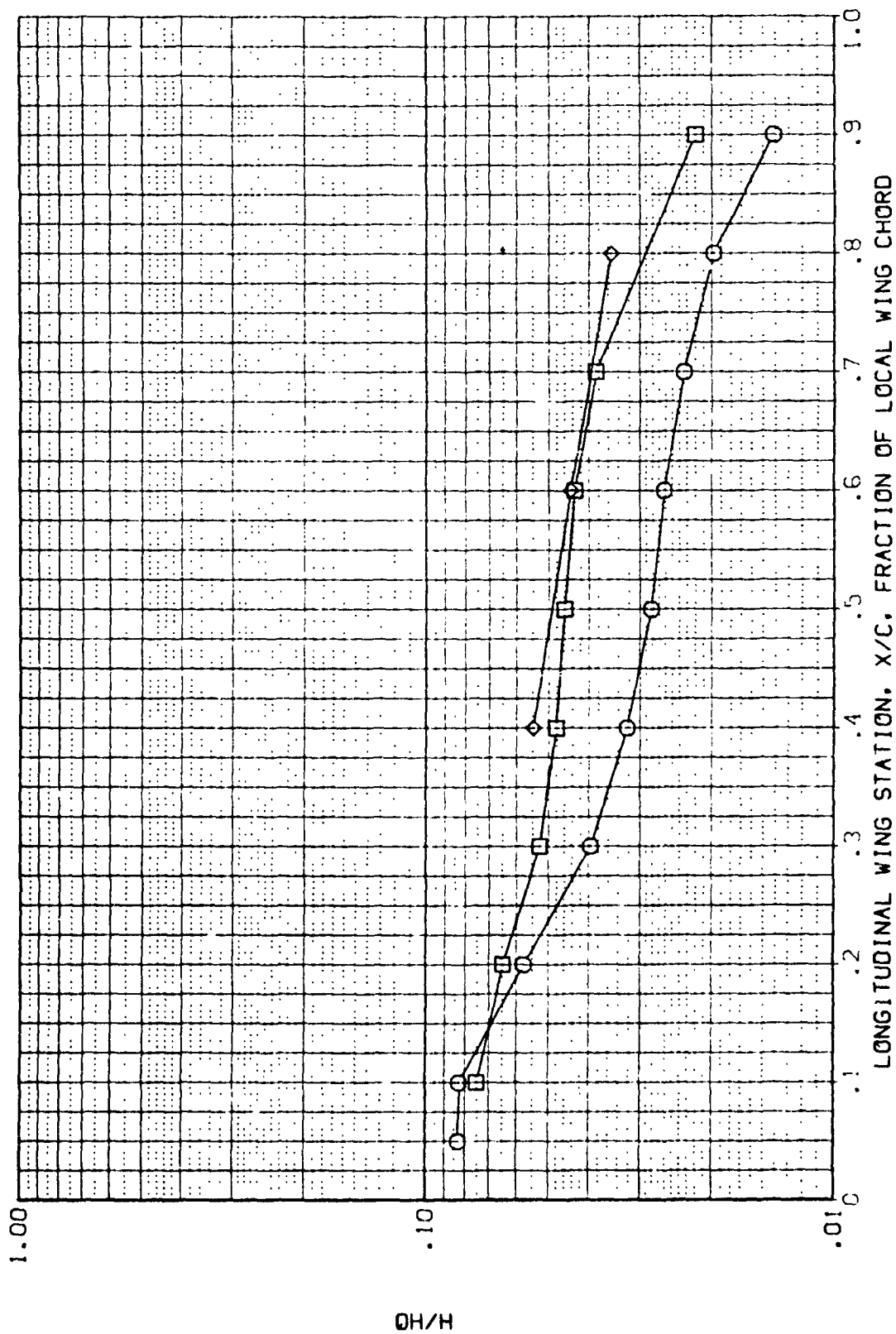


FIG 5 WING LOWER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK

(R0LW02) 0H14 B22C7F5M4V7W111 WING LOWER SURFACE

PARAMETRIC VALUES
 20.000 8.000 .000
 ALPHA BE''A
 MACH

SYMBOL 2Y/B .400 .600 .800
 HAW/HT .900 6.000
 RN/L

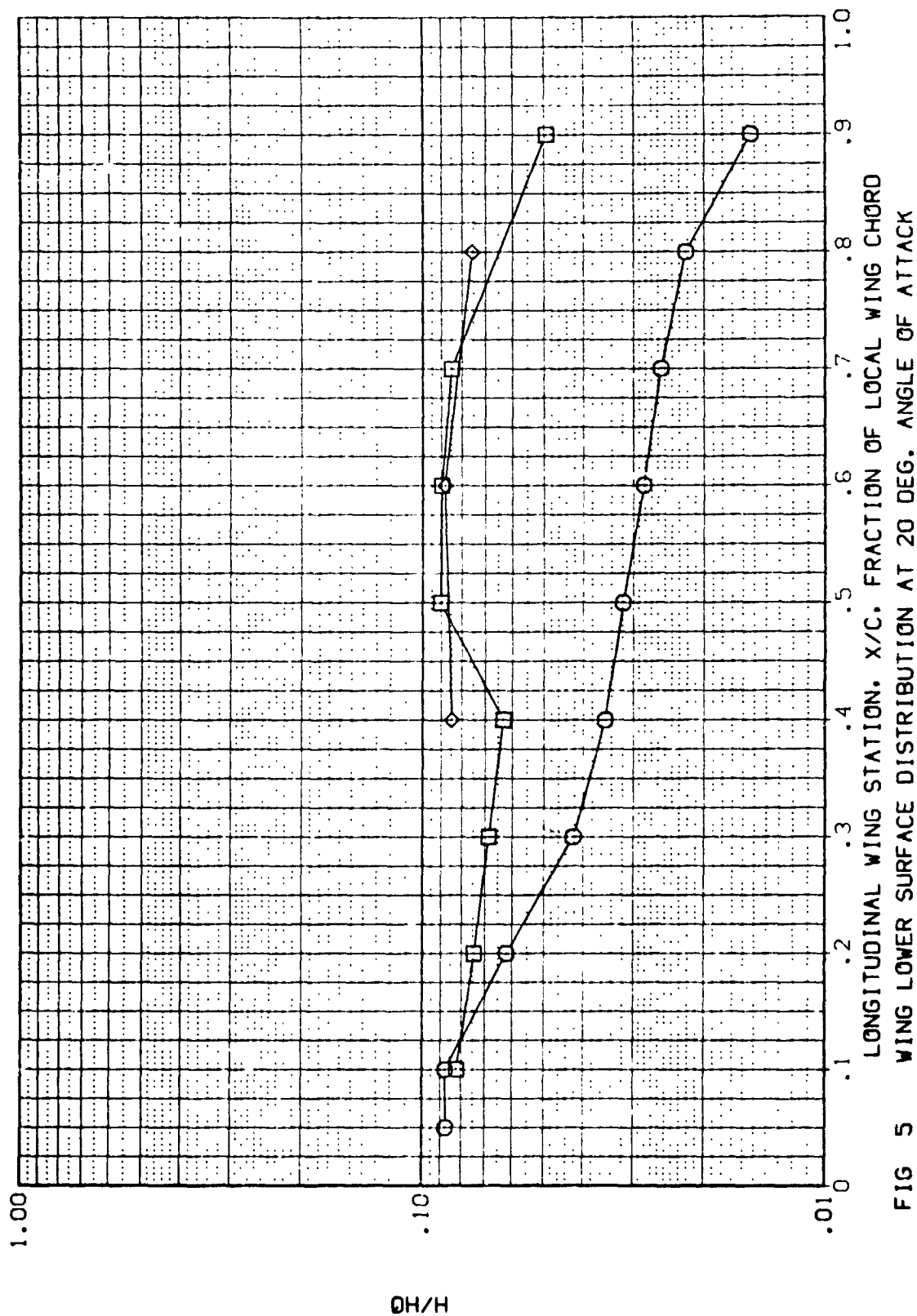


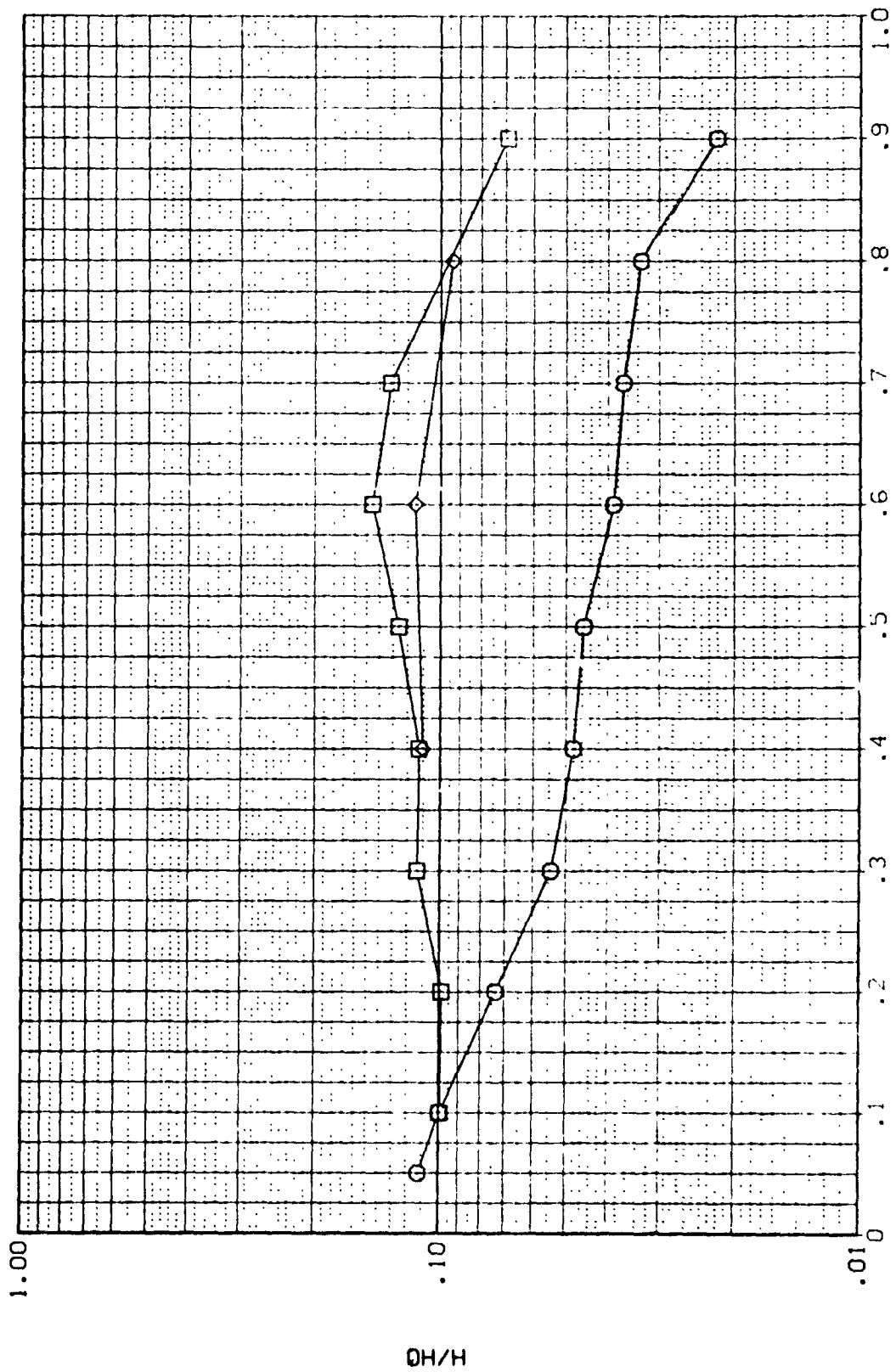
FIG 5 WING LOWER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK

(RQLW02) OH14 B22C7FSM4V7W111 WING LOWER SURFACE

SYMBOL 2Y/8
 .400
 .600
 .800

HAV/HT .950
 RN/L 8.000

PARAMETRIC VALUES
 ALPHA MACH
 20.000 8.000
 BETA .000



(RQLW02) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL 2Y/B
 0.400
 0.600
 0.800

HAV/HT
 0.900
 8.000

ALPHA
 MACH

PARAMETRIC VALUES
 20.000
 8.000
 BETA
 .000

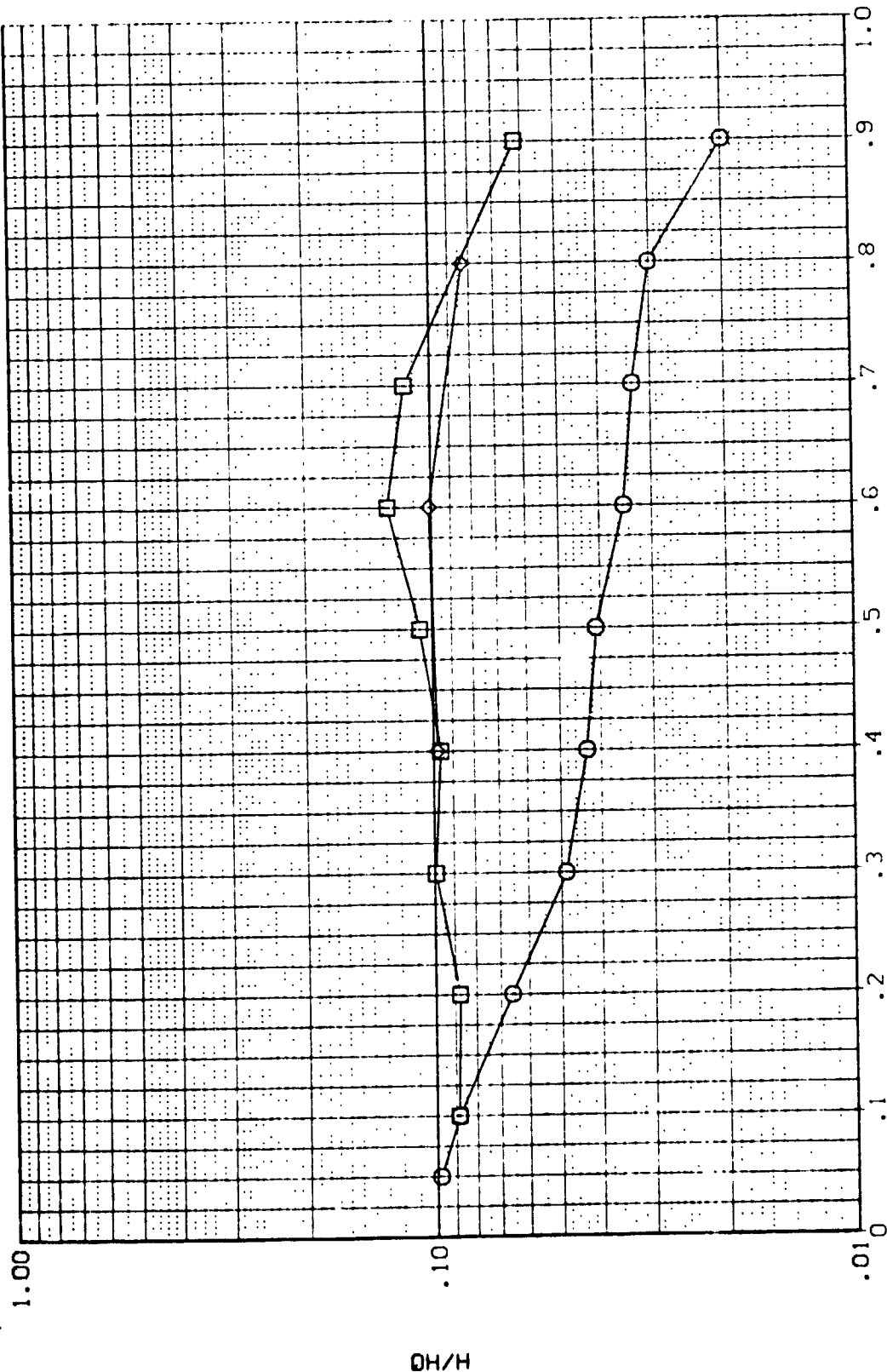


FIG 5 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 WING LOWER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK

(RQLS02) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL M.P.
 375.000
 400.000
 425.000
 465.000
 501.000

HAV/HT .850
 RN/L 1.000

PARAMETRIC VALUES
 ALPHA MACH
 20.000 8.000
 BETA .000

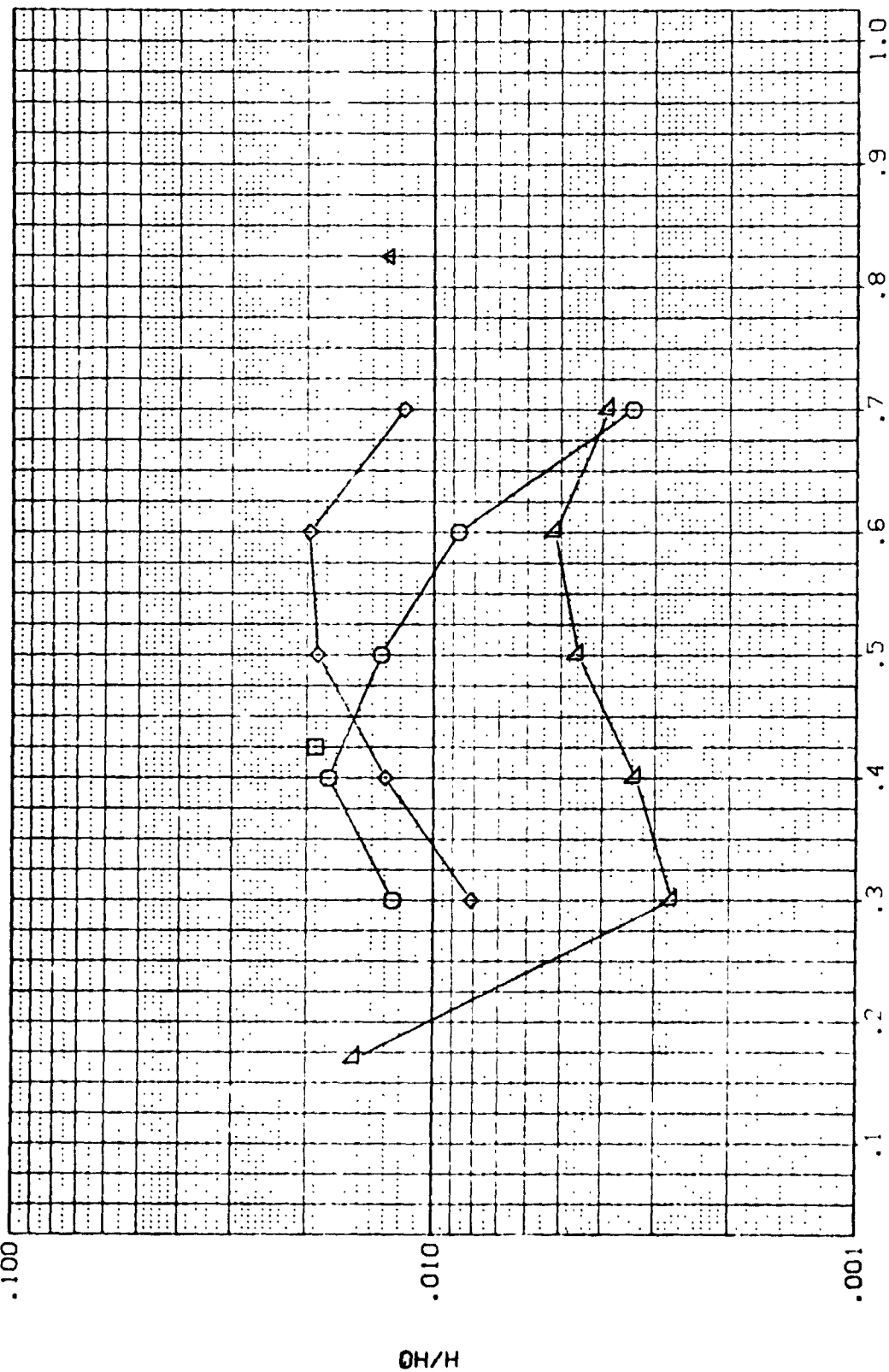


FIG 6 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK

(RQLS02) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
ALPHA 20.000 BETA 8.000
MACH .000

MAV/HT .900
RN/L 1.000

SYMBOL V.P.
375.000
400.000
425.000
465.000
501.000

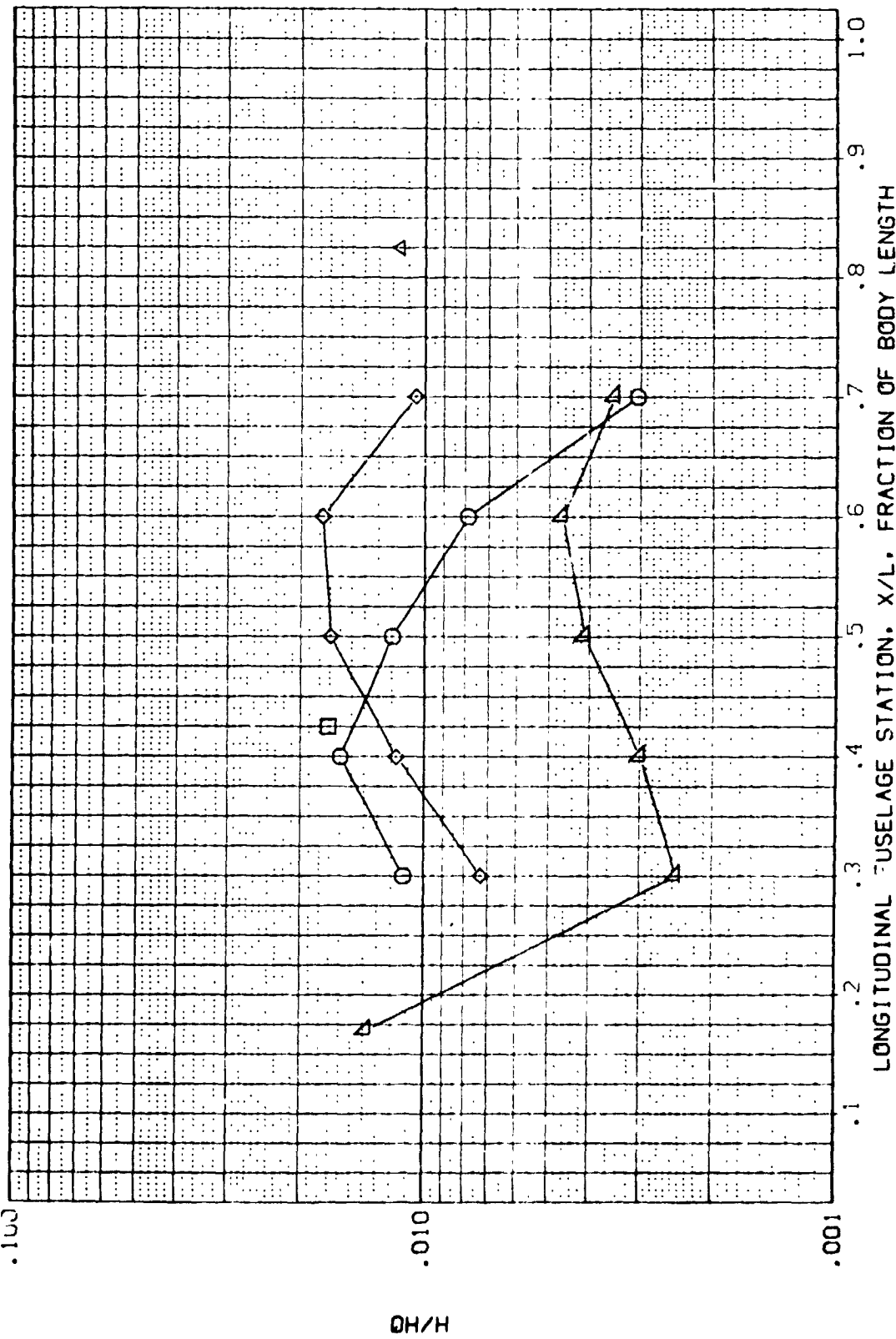


FIG 6 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE UPPER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK

(RQLS02) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
20.000 BETA
8.000

ALPHA
MACH

WAV/WT
RN/L
850 3.000

V.P.
SYMBOL
375.000
400.000
425.000
465.000
501.000
.100

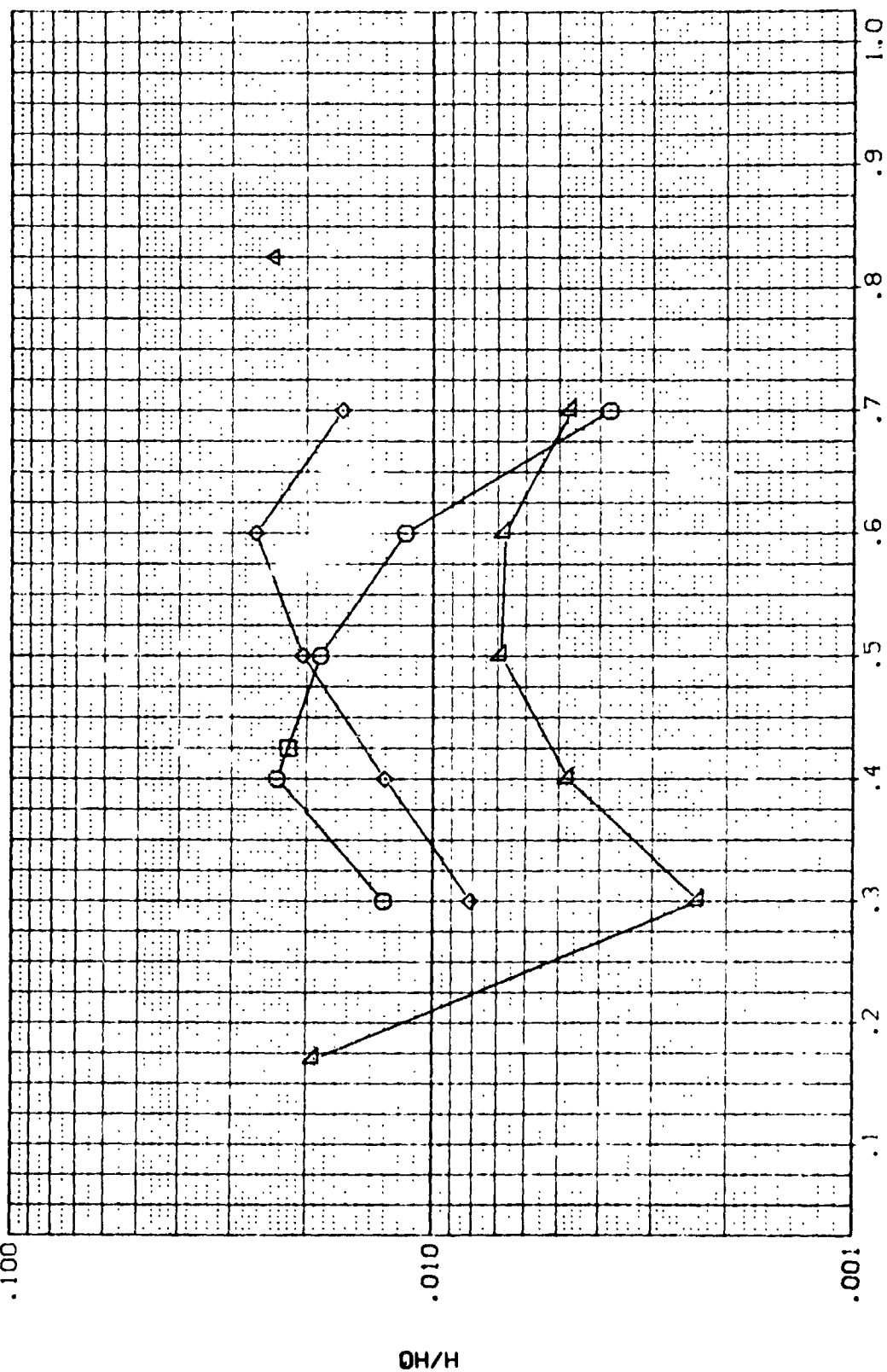


FIG 6 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
FUSELAGE UPPER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK

(RQLS02) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL
 375.000
 400.000
 425.000
 465.000
 501.000

MAV/HT 3.000
 RN/L

ALPHA
 MACH

PARAMETRIC VALUES
 20.000 BETA
 8.000

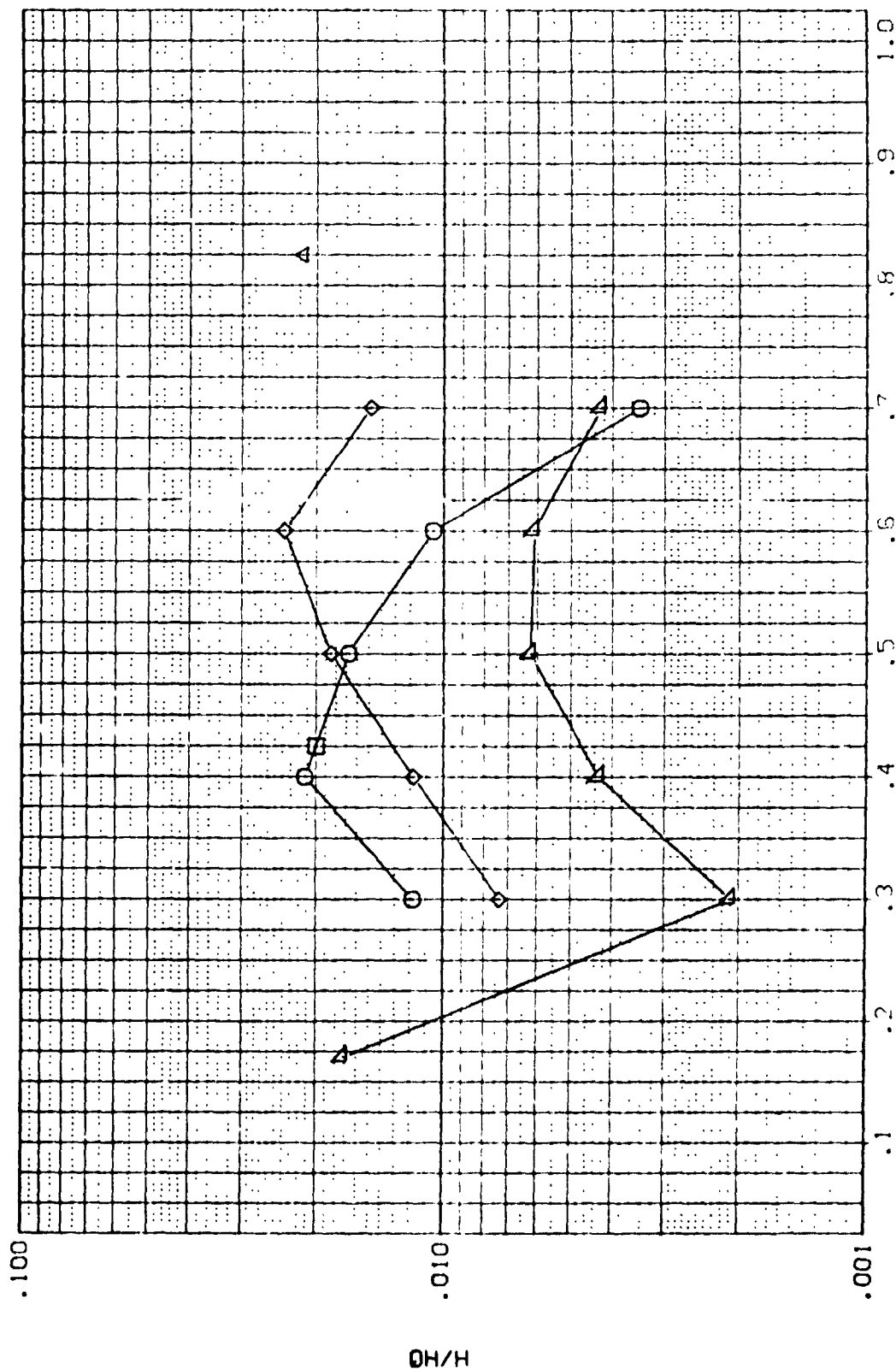


FIG 6 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK

(R0LS02) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL V.P.
 375.000
 400.000
 425.000
 465.000
 501.000
 .100

MAW/MT .850
 RN/L 6.000

PARAMETRIC VALUES
 ALPHA MACH
 20.000
 8.000
 .000

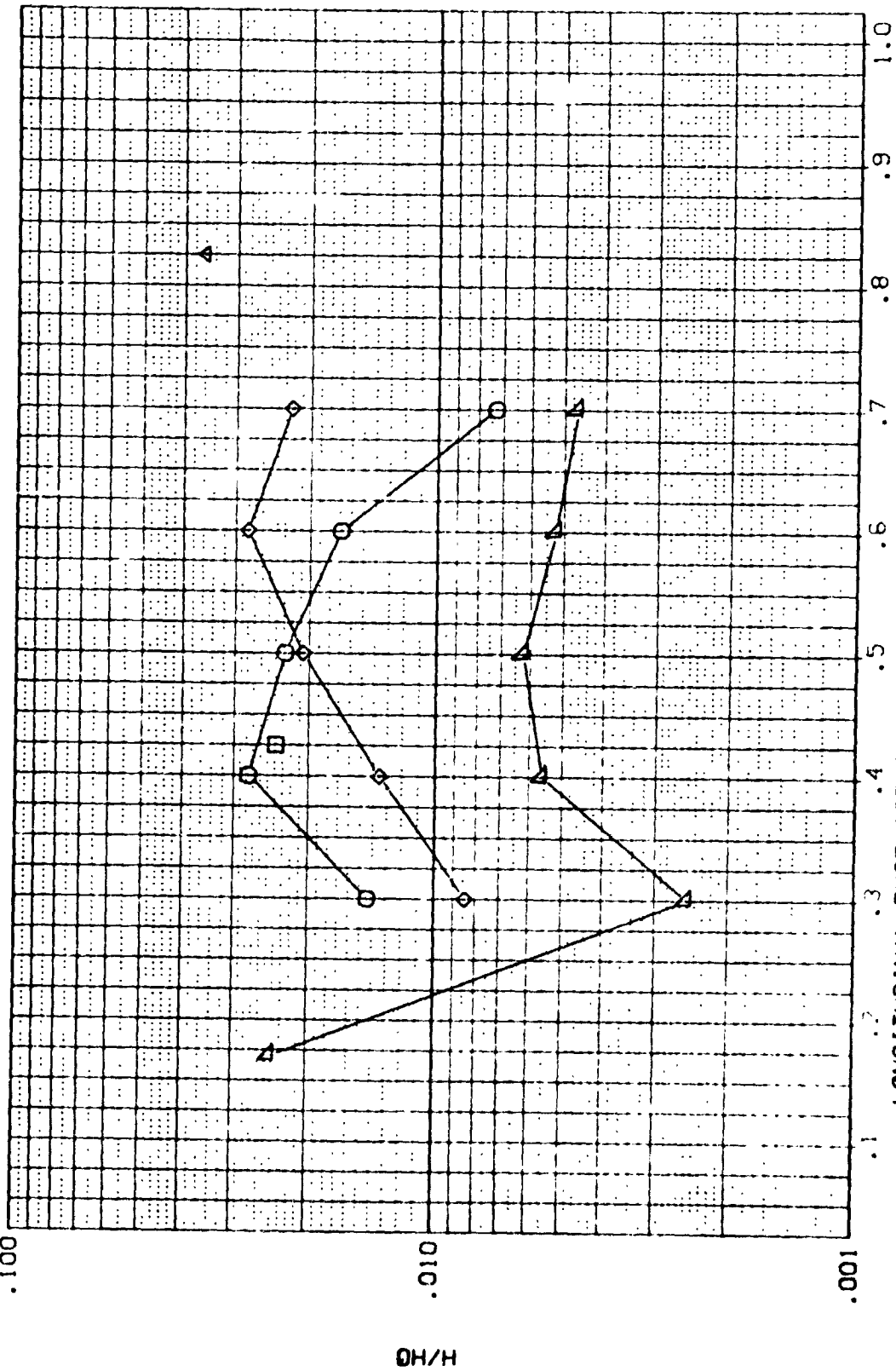


FIG 6 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK

(RQLS02) CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SVP802 M.P.
375.000
400.000
425.000
450.000
475.000
500.000
525.000

MAN/WT 6.000
RN/L

ALPHA
MAC

PARAMETRIC VALUES
20.000 BETA
8.000

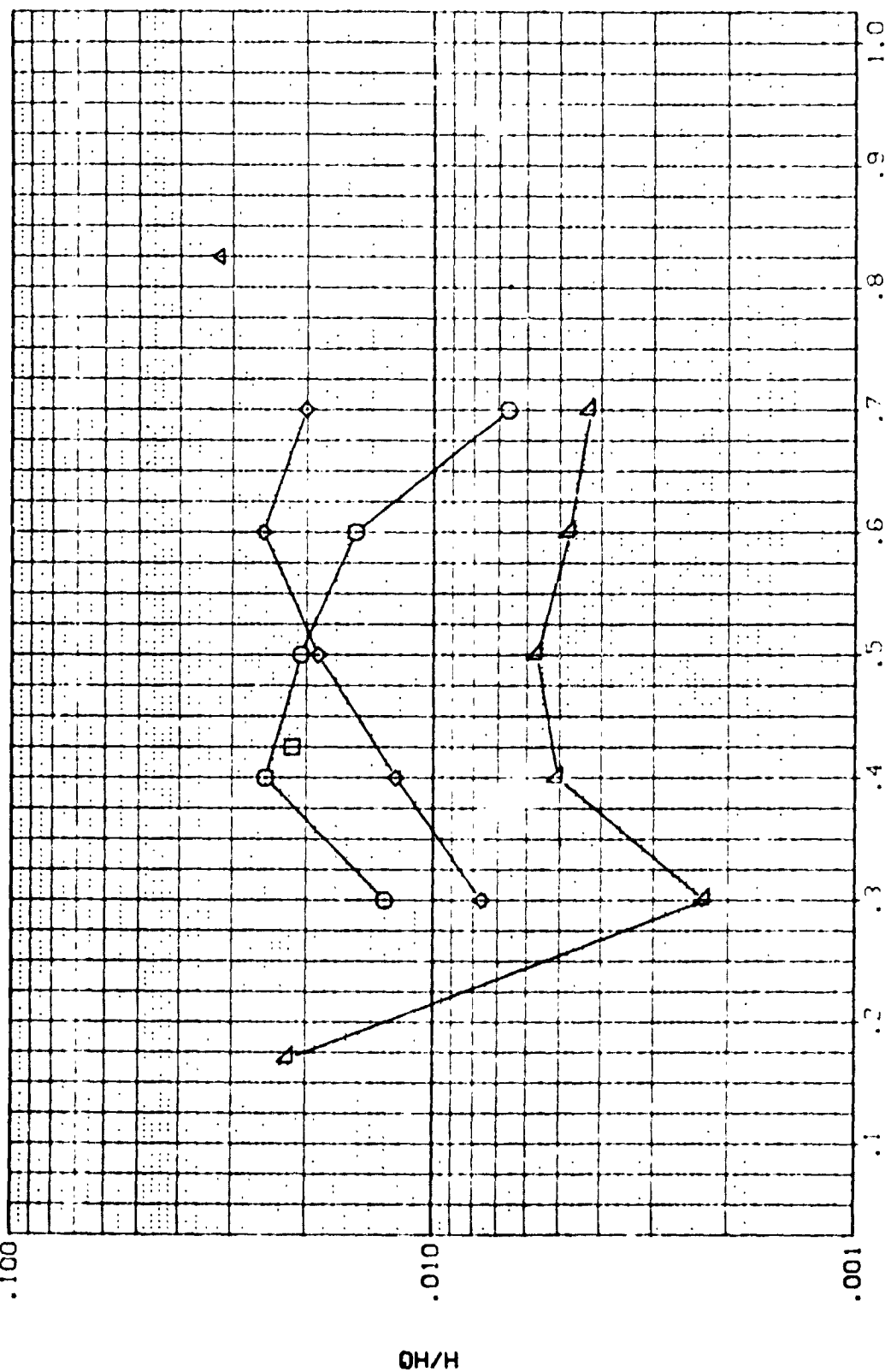


FIG 6 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
FUSELAGE UPPER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK

(RQLS02) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
20.000 BE'A
8.000

ALPHA
HACH

HA8/MT
850 6.000

SYMBOL V.P.
375.000
400.000
425.000
465.000
501.000

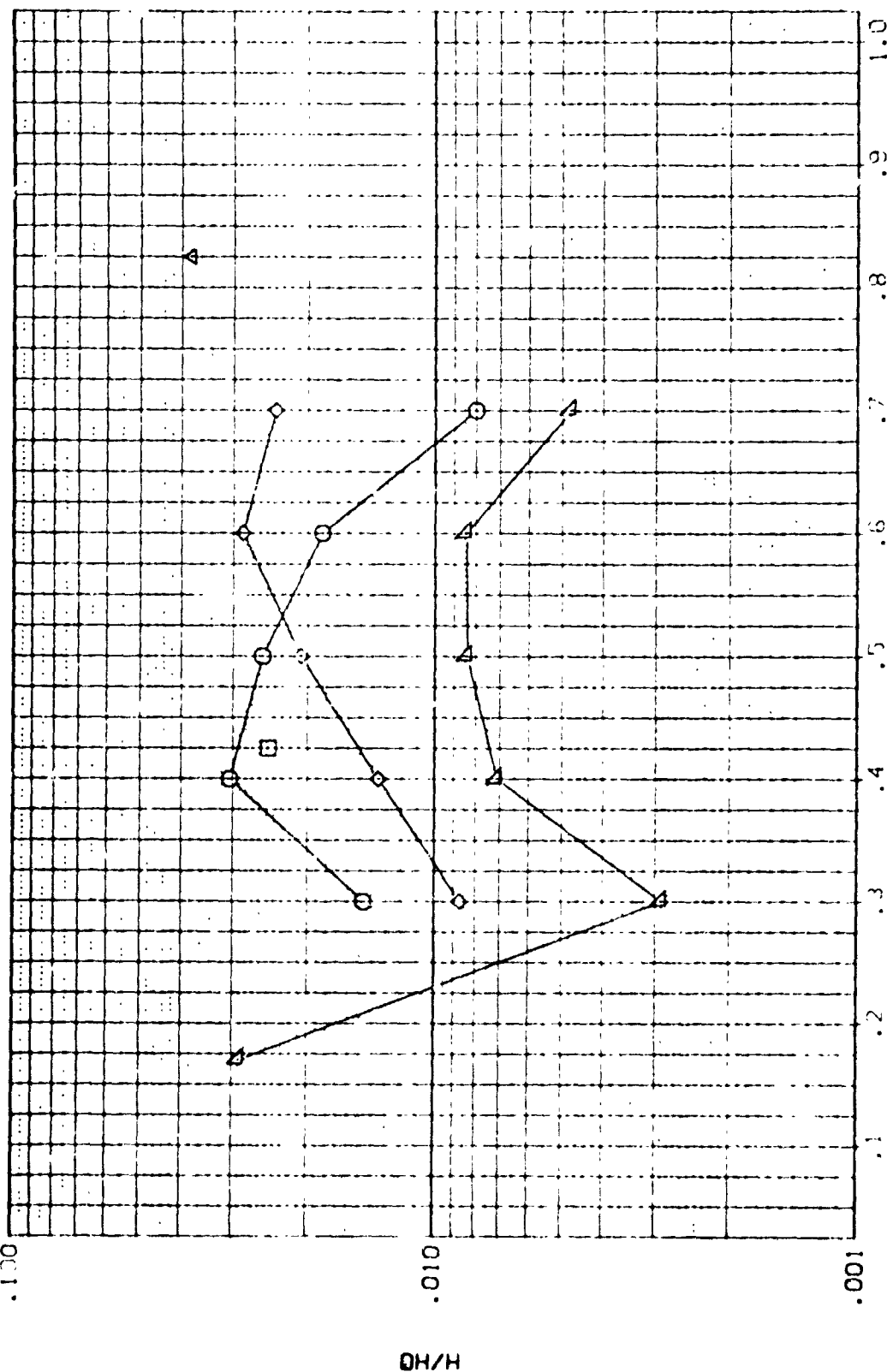


FIG 6 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE UPPER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK

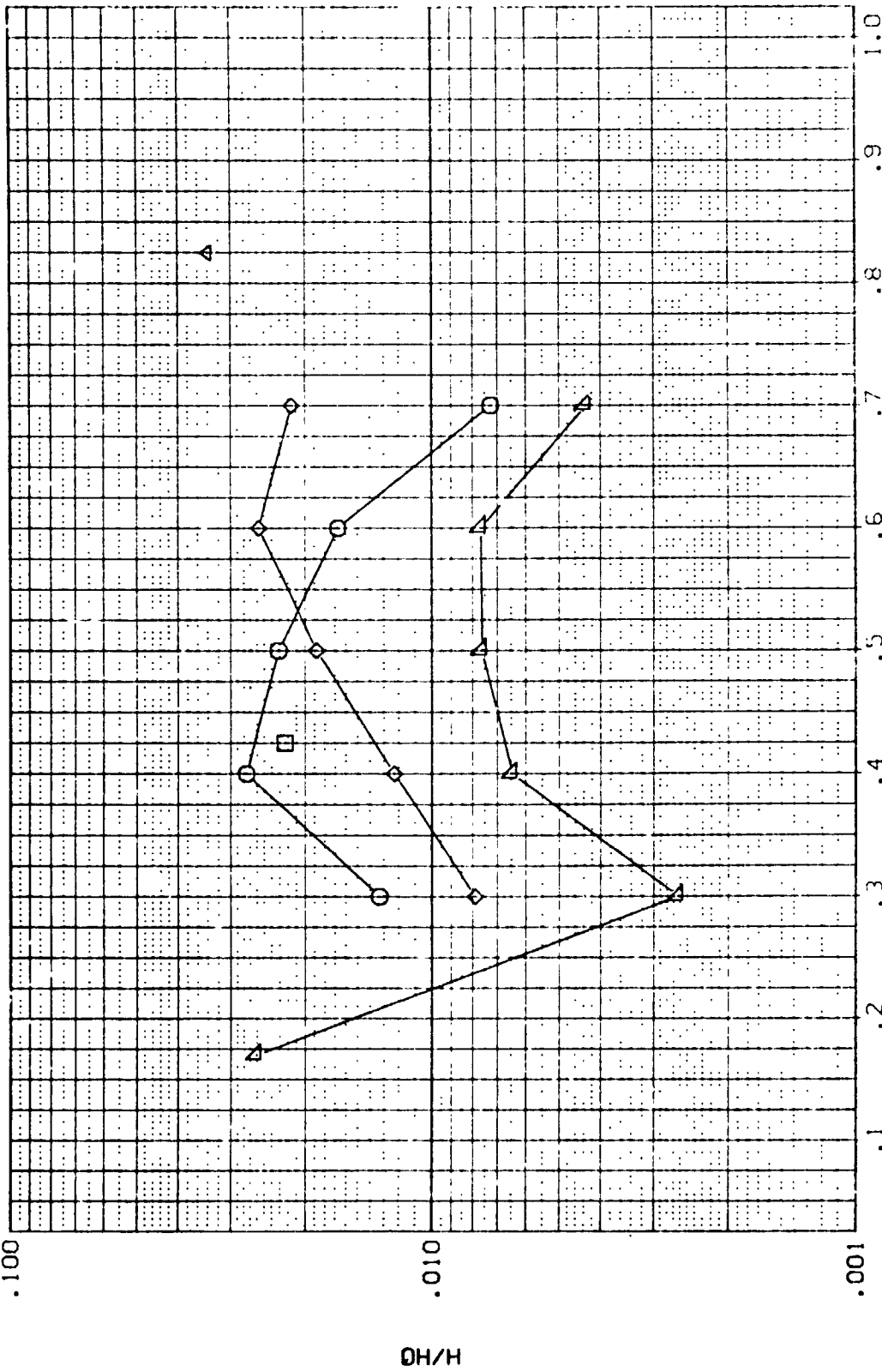
(RQLS02) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL V.P.
 375.000
 400.000
 425.000
 465.000
 51.000

HAW/HT .900
 RN/L 8.000

ALPHA
 HACH

PARAMETRIC VALUES
 20.000 BETA
 8.000 .000



LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH

FIG 6 FUSELAGE UPPER SURFACE DISTRIBUTION AT 20 DEG. ANGLE OF ATTACK

(RQLB03) 0H14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. 117.000

MACH/HIT 0.850

RN/L 1.000

ALPHA
MACH

PARAMETRIC VALUES
25.000 BETA
8.000

.000

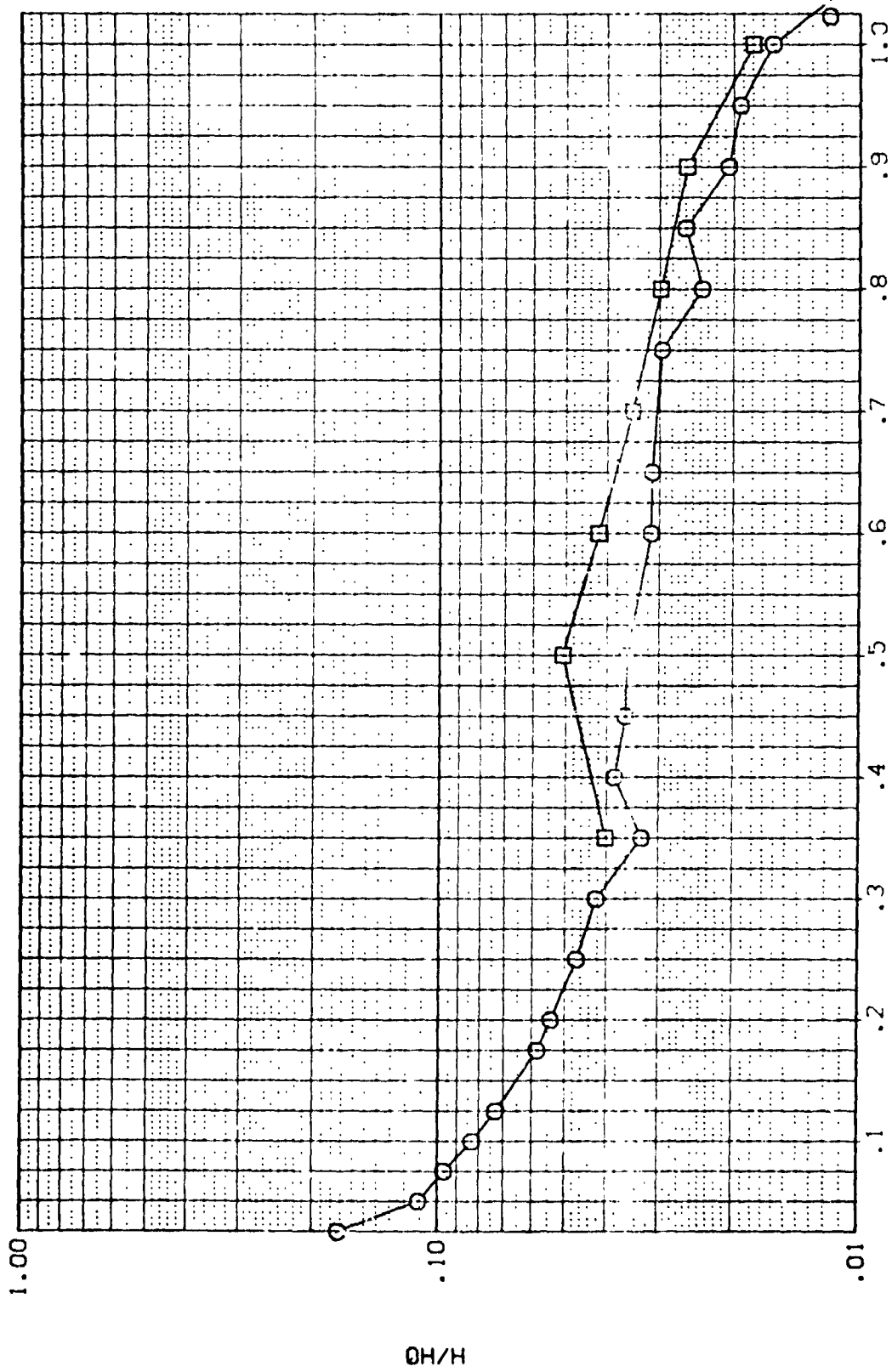


FIG 7 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQL803) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

| | | | | | |
|--------|---------|--------|-------|-------|-------------------|
| SYMBOL | B.P. | NAV/HT | RV/L | ALPHA | PARAMETRIC VALUES |
| □ | 117.000 | .900 | 1.000 | MACH | 25.000 BETA .000 |

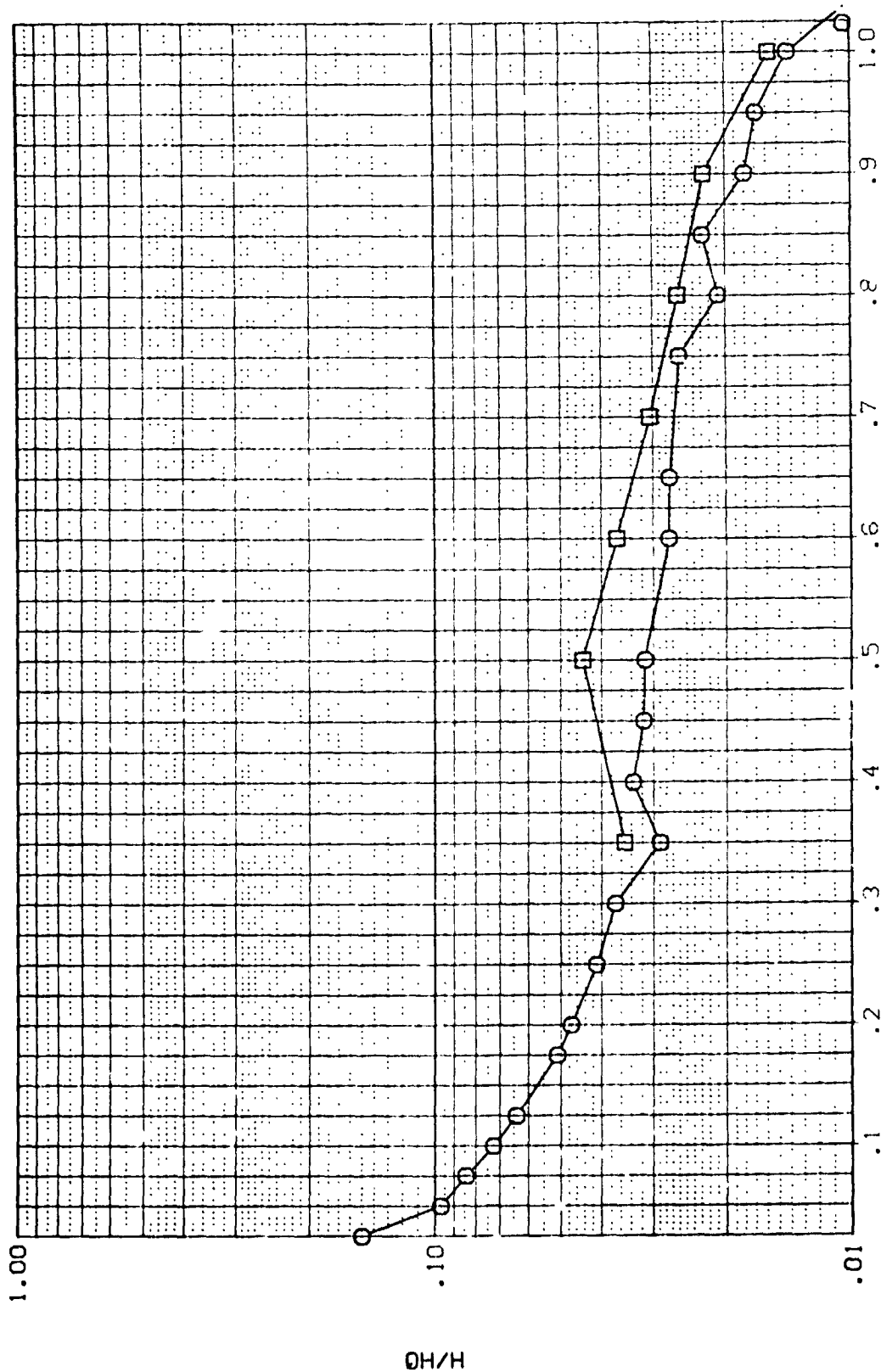


FIG 7 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLB03) OH14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. .000
117.000

MAW/HT .850

RN/L 3.000

ALPHA
MACH

PARAMETRIC VALUES
25.000 BETA .000
8.000

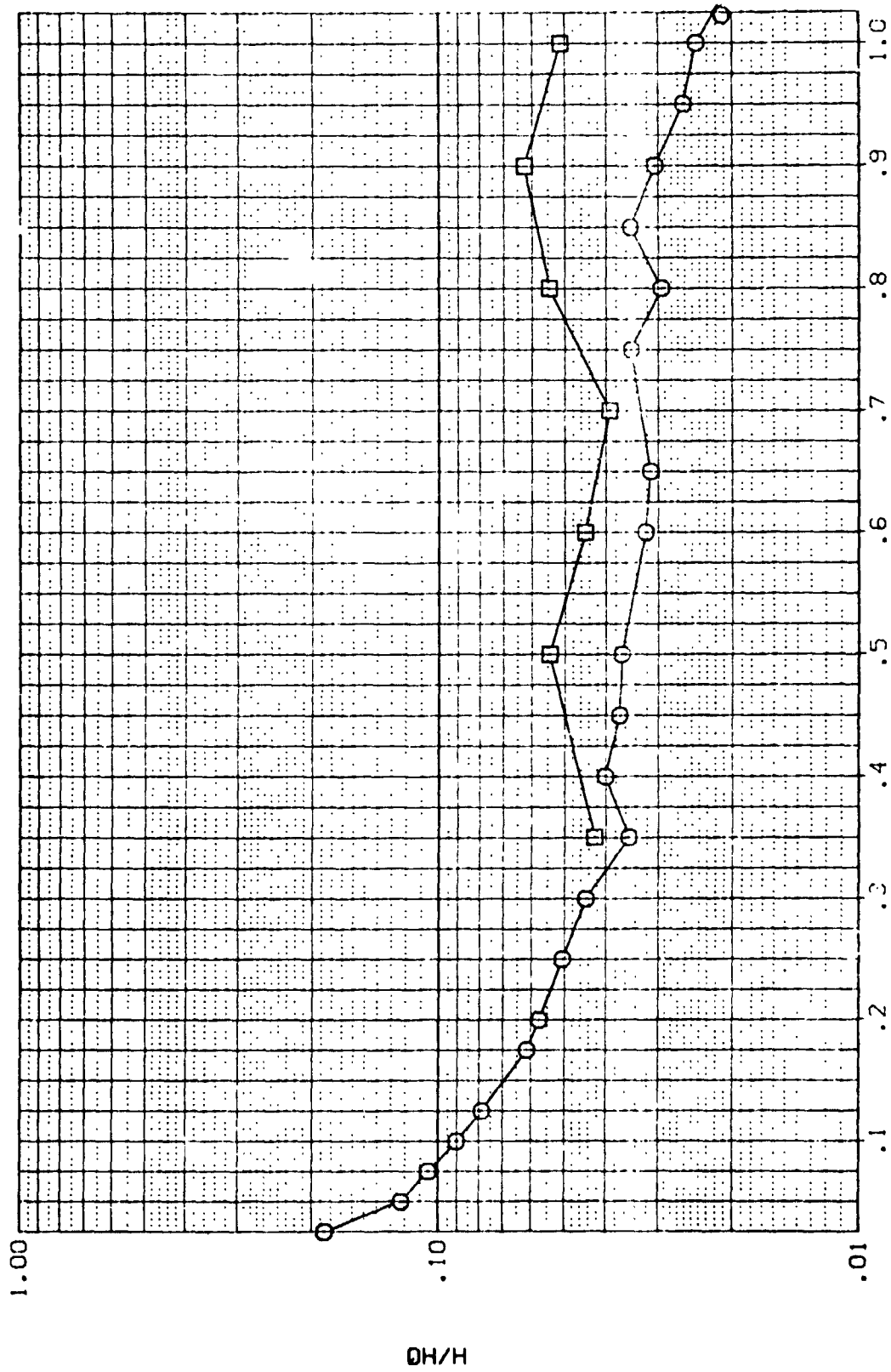


FIG 7 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(ROLB03) 0H14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. 117.000

HA1/HT .900

RN/L 3.000

ALPHA MACH

PARAMETRIC VALUES
25.000 BETA
8.000

.000

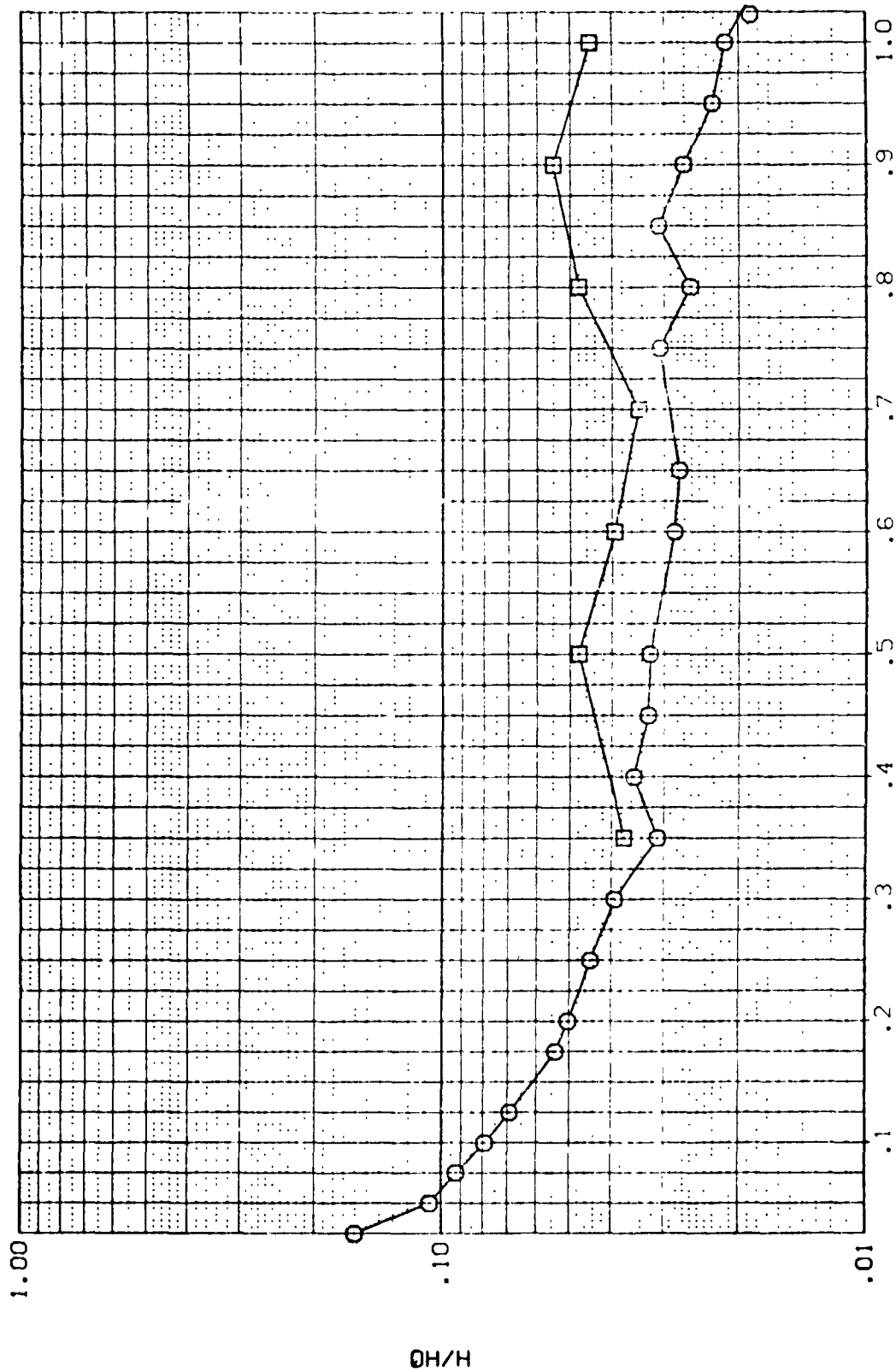


FIG 7 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQL803) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P.
117.000

HAV/MT .850
RN/L 4.000

ALPHA MACH
25.000
8.000
BETA .000

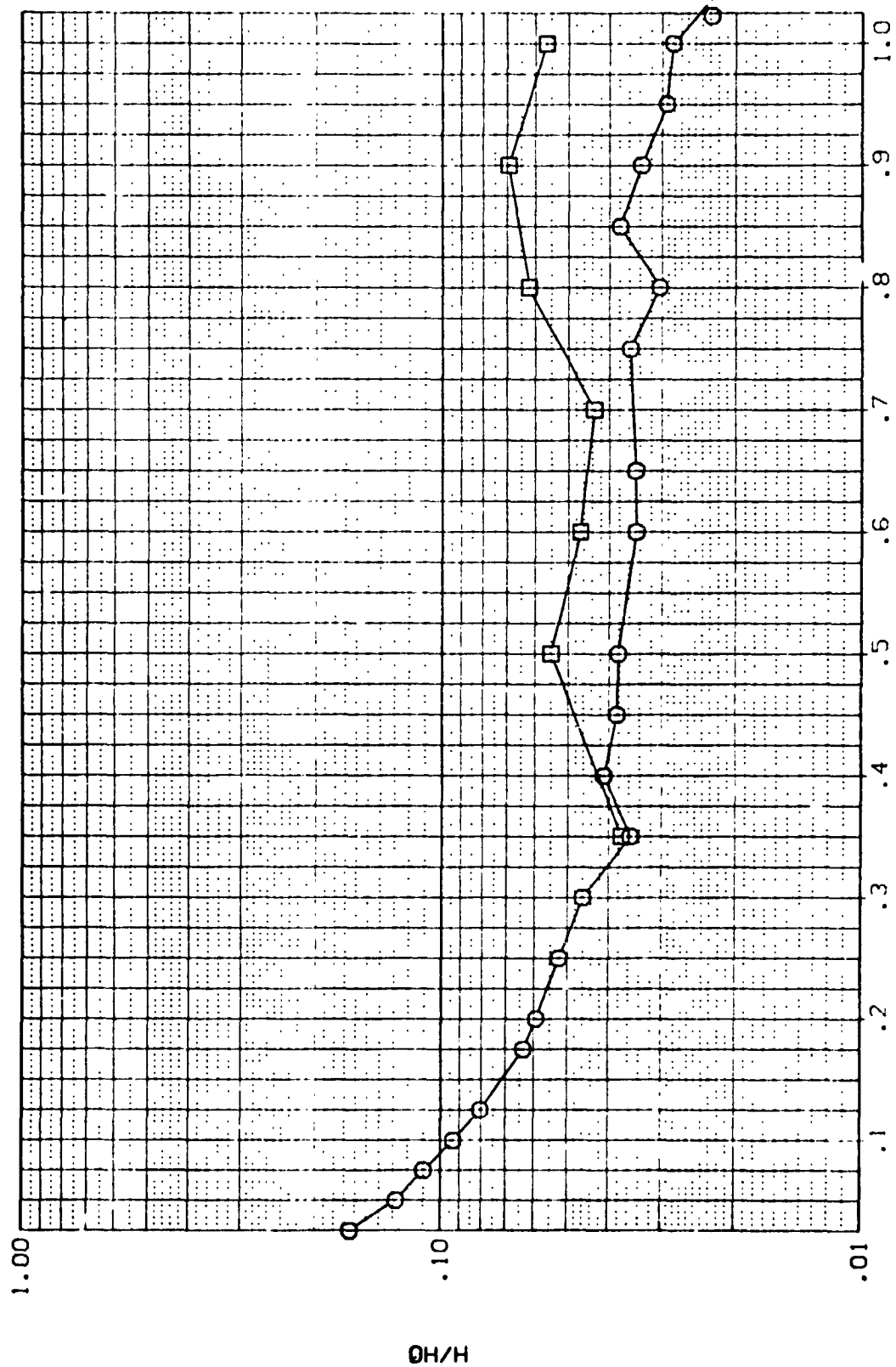


FIG 7 FUSELAGE LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

[RQLB03] OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

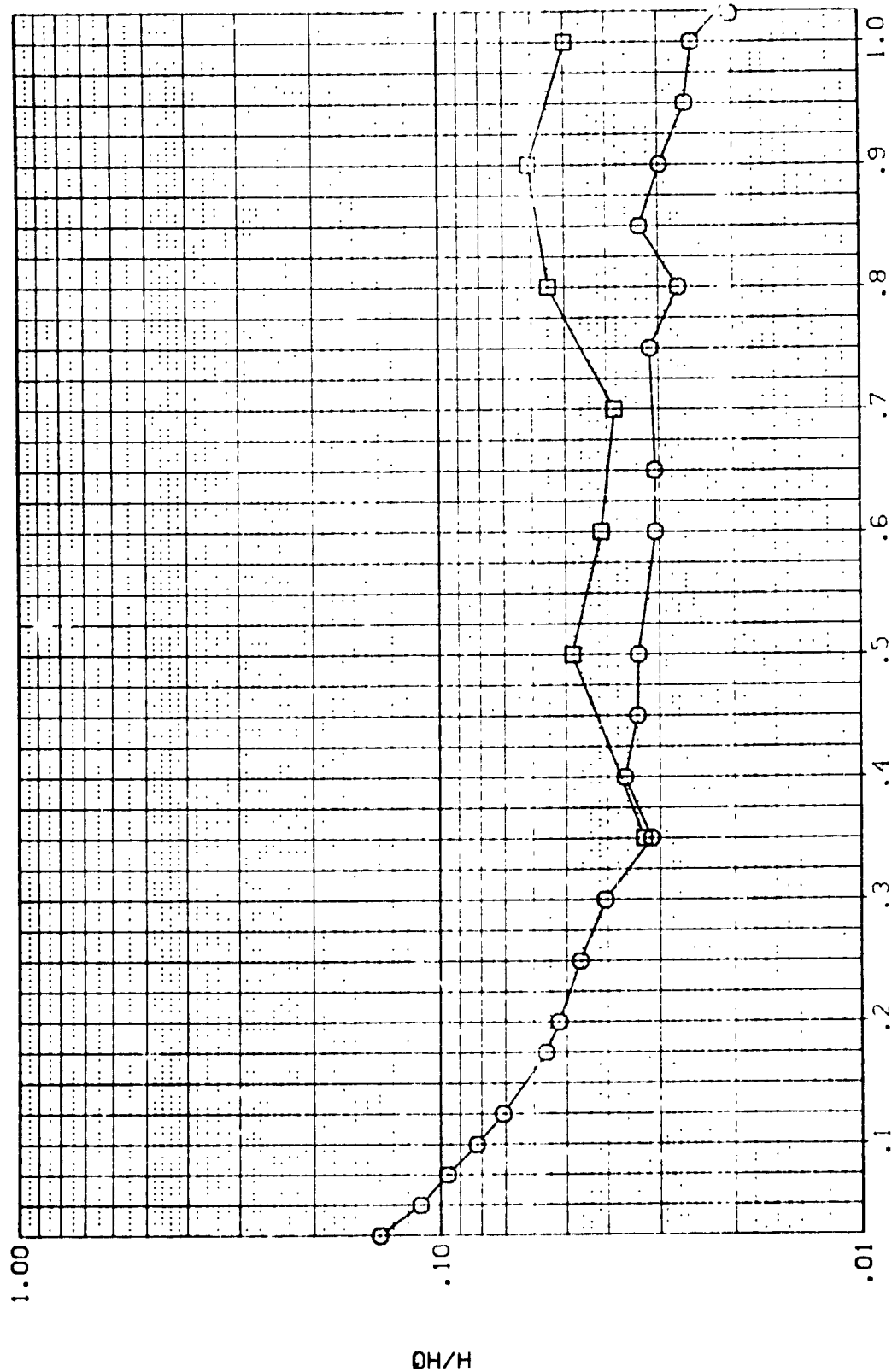
SYMBOL B.P. 117.000

MAV/HT .900

RN/L 4.000

ALPHA MACH

PARAMETRIC VALUES
25.000 BETA .000
8.000



LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
FIG 7 FUSELAGE LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLB03) 0H14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYNTHETIC
B.P.
117.000

NAV/HT
.850

RN/L
5.000

ALPHA
MACH

PARAMETRIC VALUES
25.000 BETA
8.000

.000

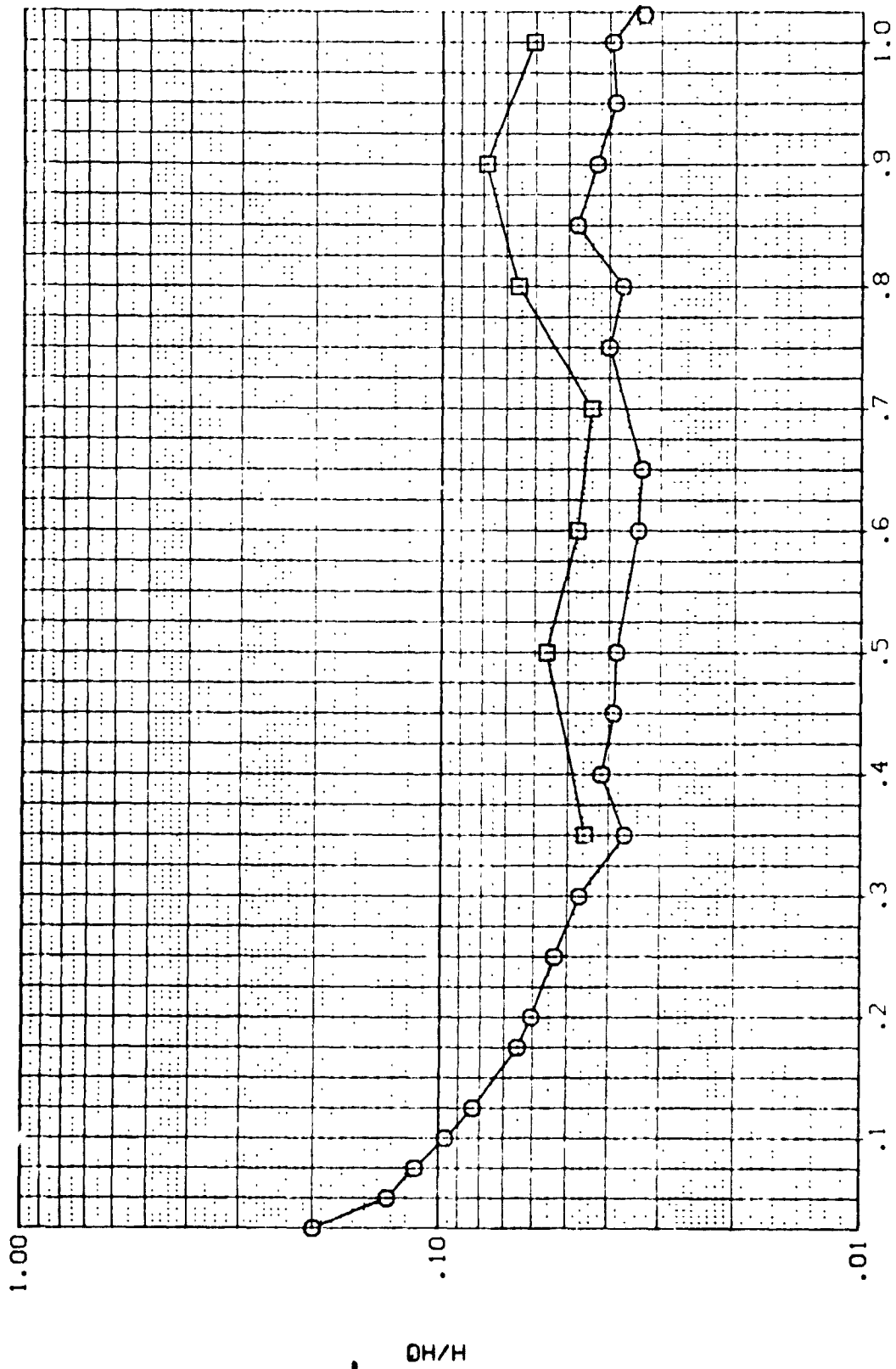


FIG 7 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLB03) 0H14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. 117,000
 NAV/MT .900 RN/L 5,000

PARAMETRIC VALUES
 ALPHA MACH 25,000 BETA .000

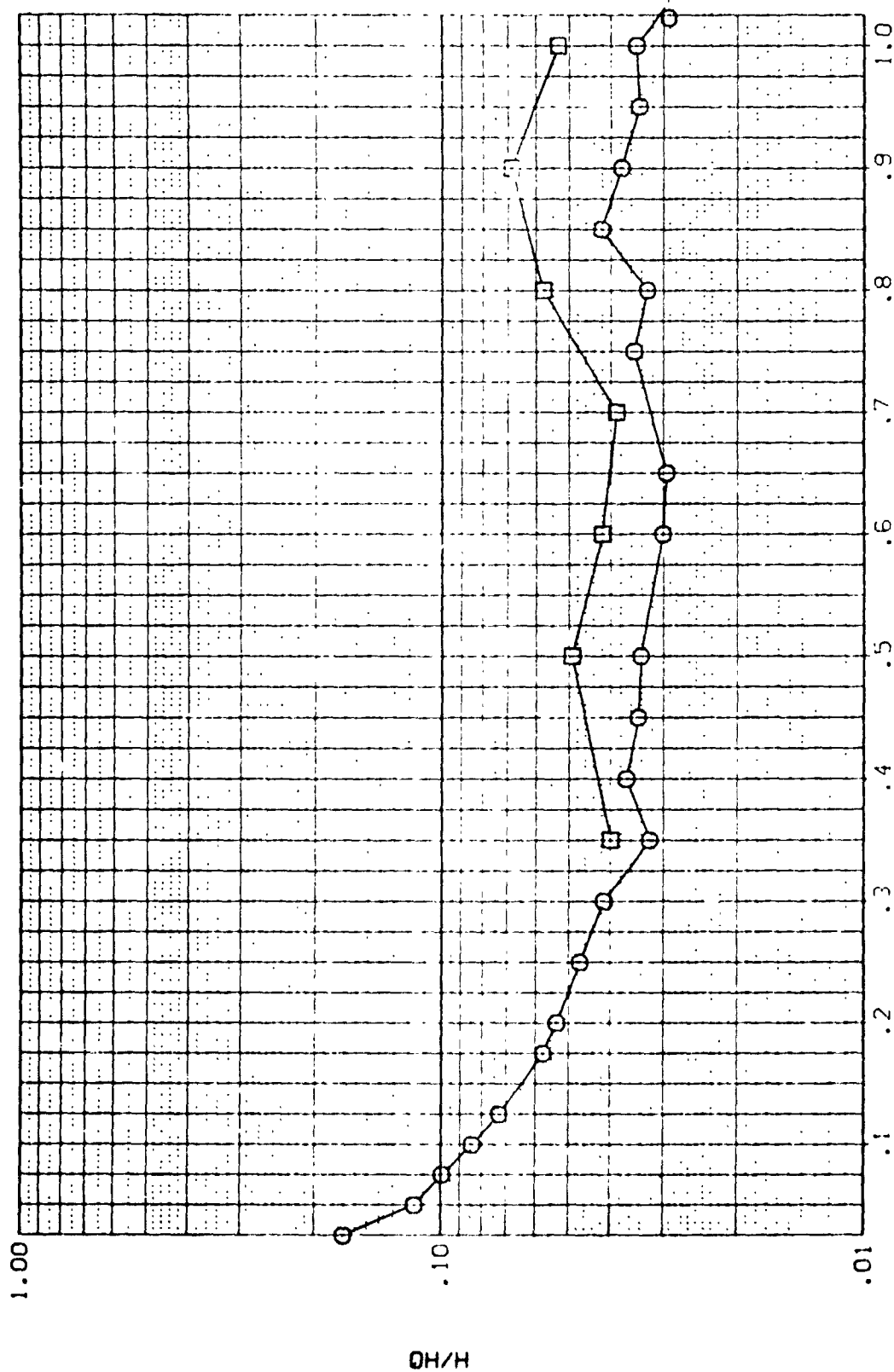


FIG 7 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLB03) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. 117.000
 HAN/MT 6.000
 RN/L

PARAMETRIC VALUES
 ALPHA 25.000
 MACH 8.000
 BETA .000

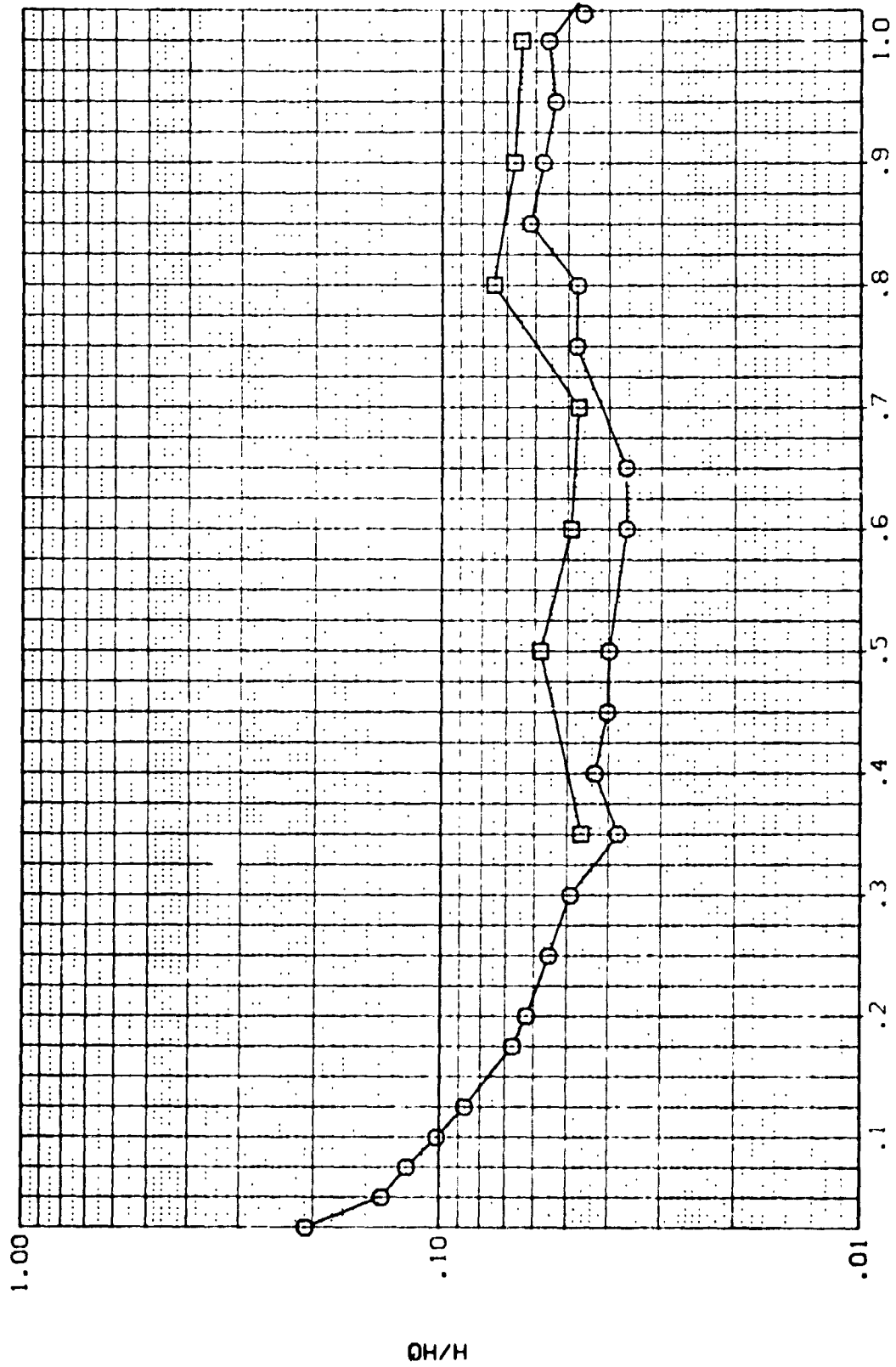


FIG 7 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
 FUSELAGE LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLB03) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. HAW/MT RN/L
 8 117.000 .900 6.000

PARAMETRIC VALUES
 ALPHA MACH 25.000 BETA .000

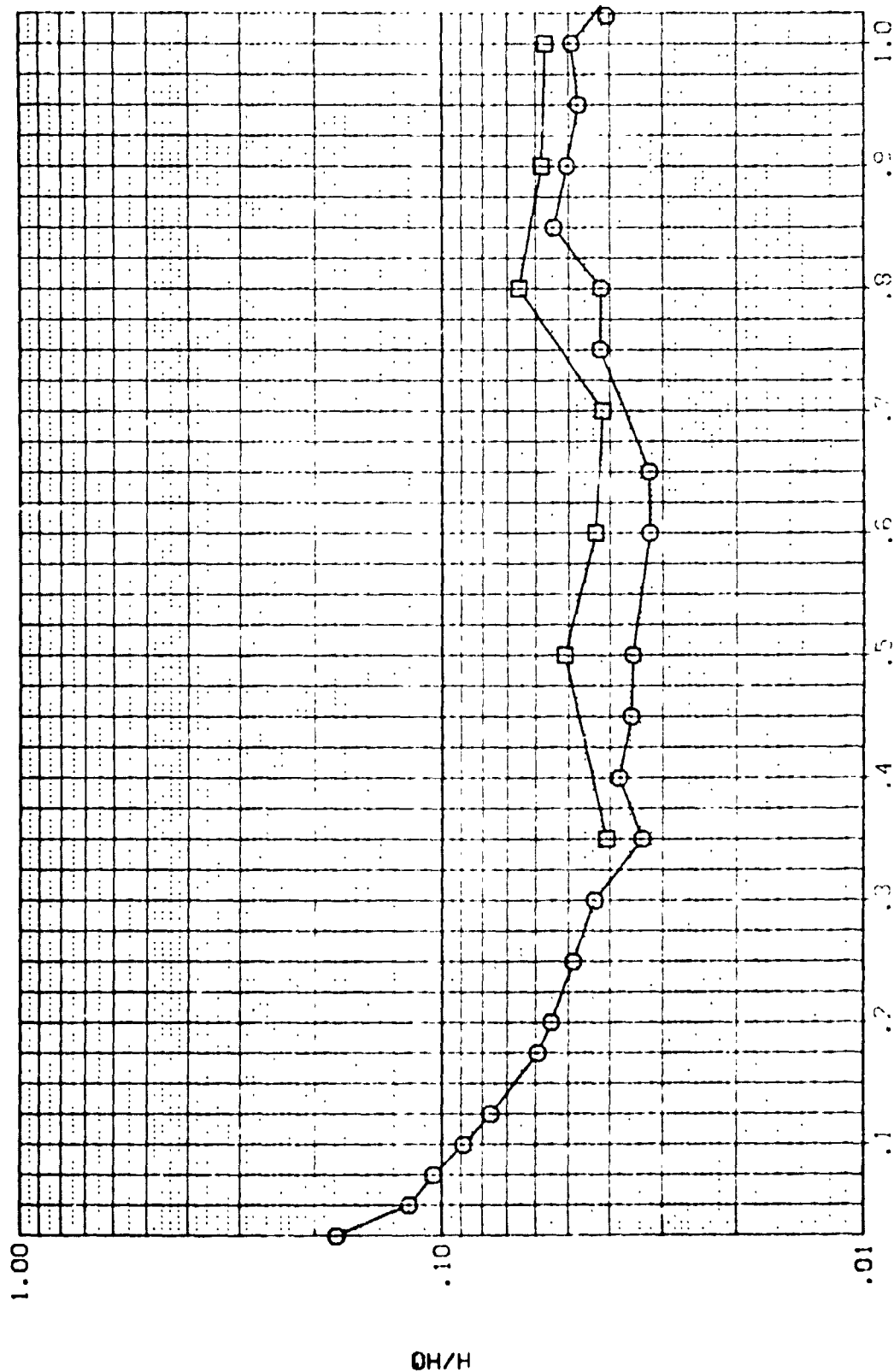


FIG 7 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
 FUSELAGE LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLB03) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. 117.000

MAW/MT .950

RN/L 8.040

PARAMETRIC VALUES

25.000 BETA

.000

ALPHA

MACH

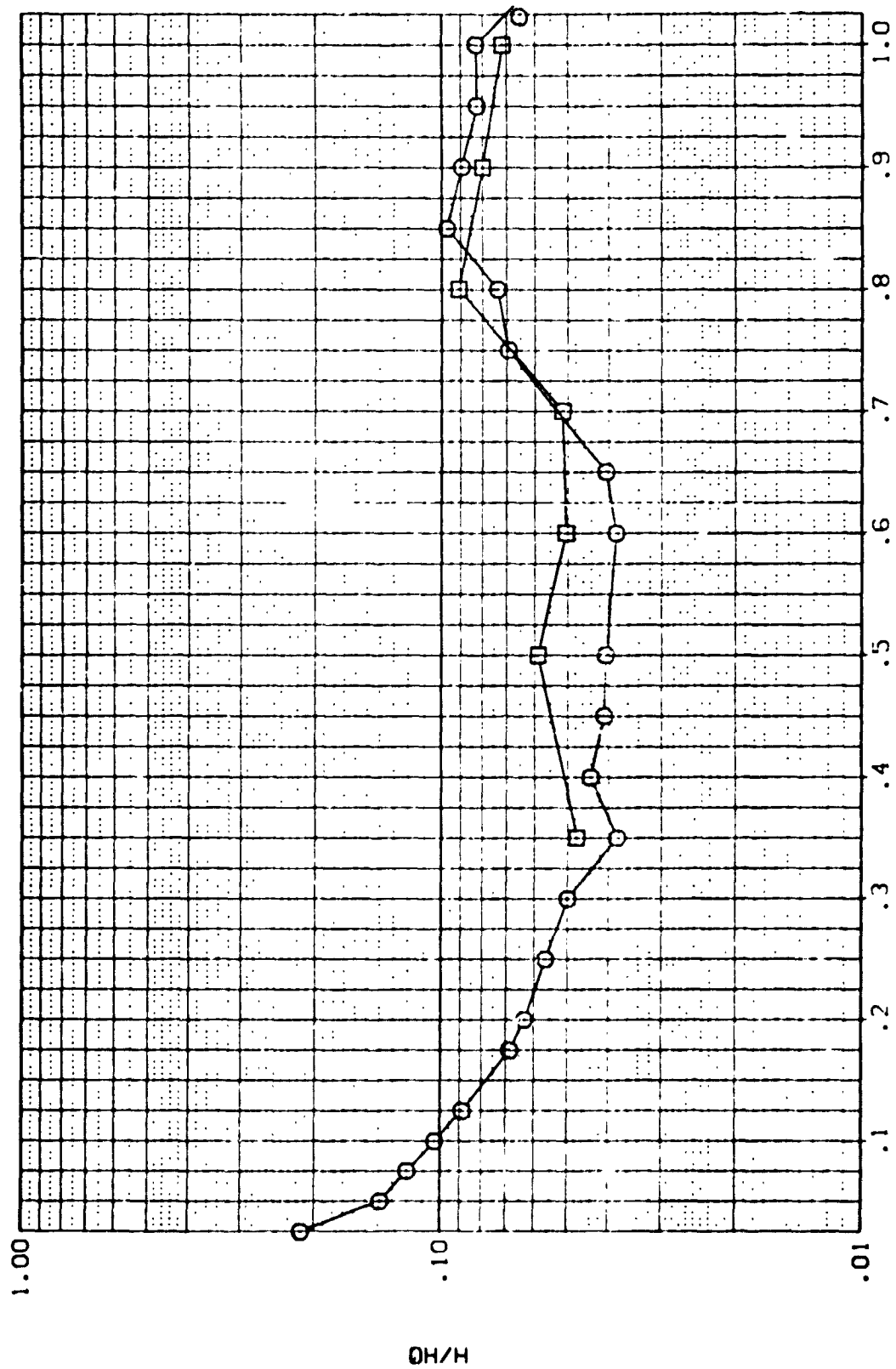


FIG 7 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(R0LB03) OH14 822C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. 117.000

MAW/MT .900 RN/L 8.000

ALPHA MACH

PARAMETRIC VALUES
25.000 BETA .000
8.000

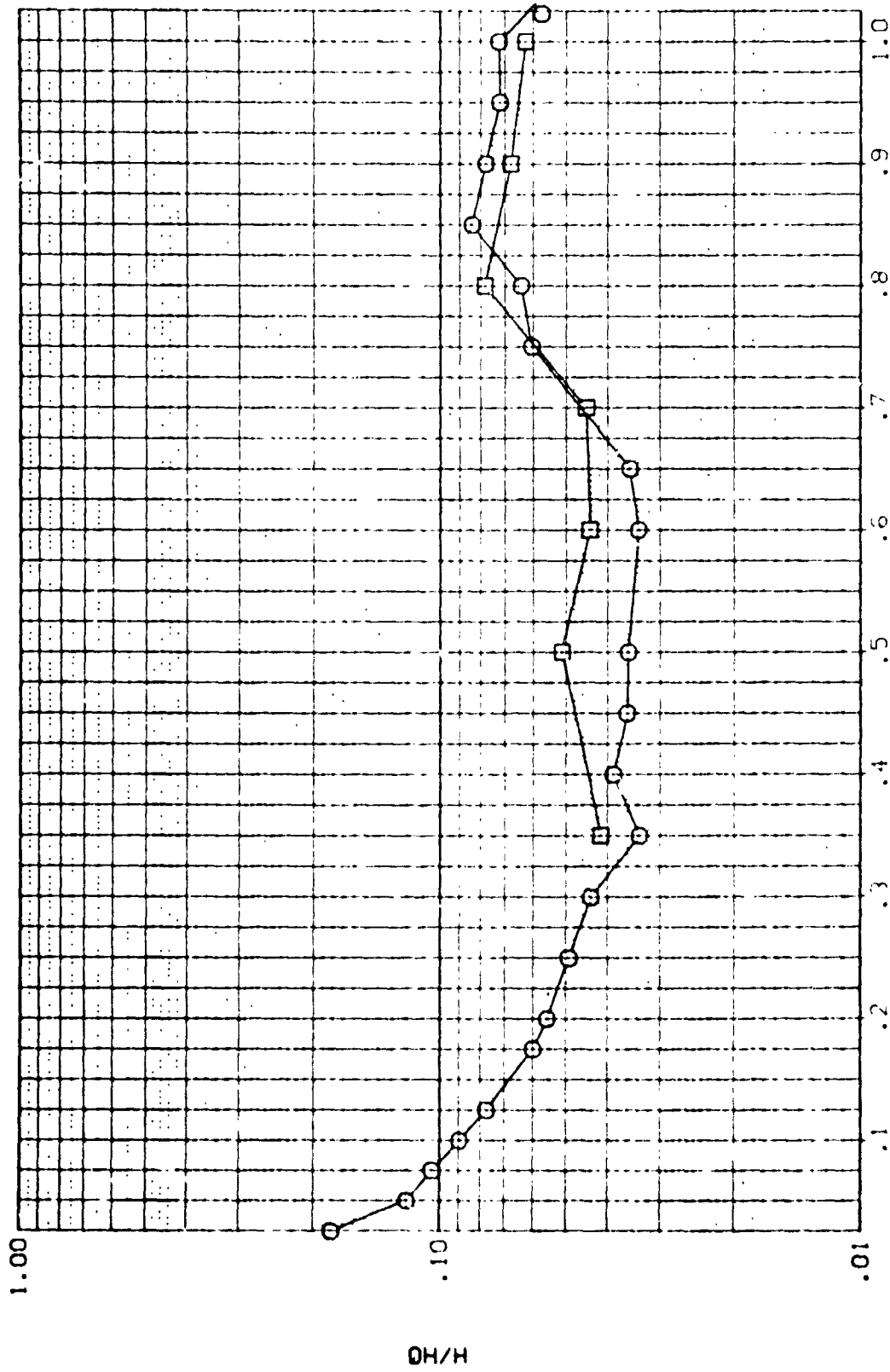


FIG 7 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLB03) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. NAV/MT RN/L
 117.000 .850 10.000

PARAMETRIC VALUES
 ALPHA 25.000 BETA .000
 MACH 8.000

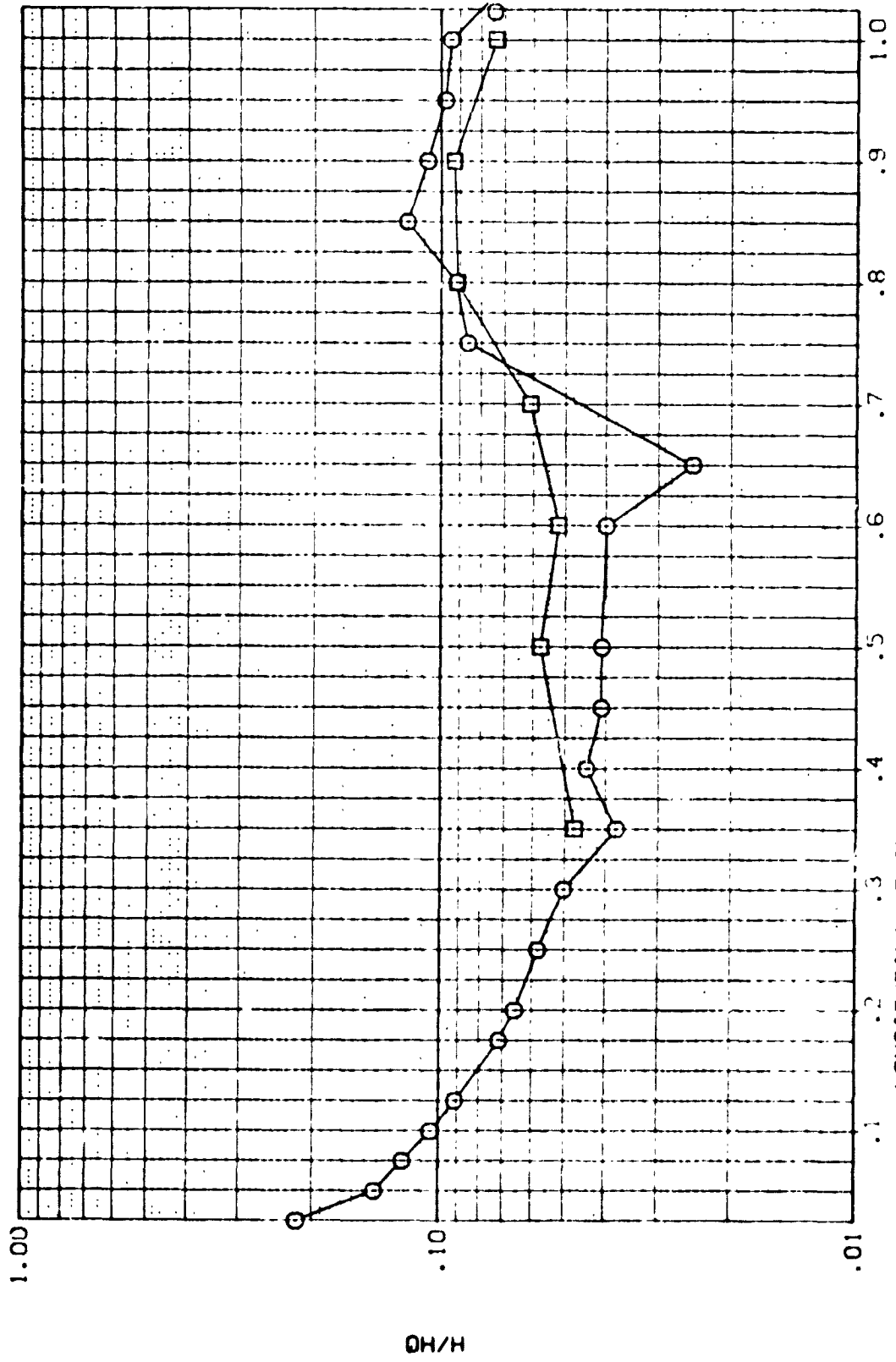


FIG 7 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
 FUSELAGE LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

QHLB03) QH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. 117,000
 HAW/HT .900
 RN/L 10.000

PARAMETRIC VALUES
 ALPHA MACH .000
 BETA 8.000

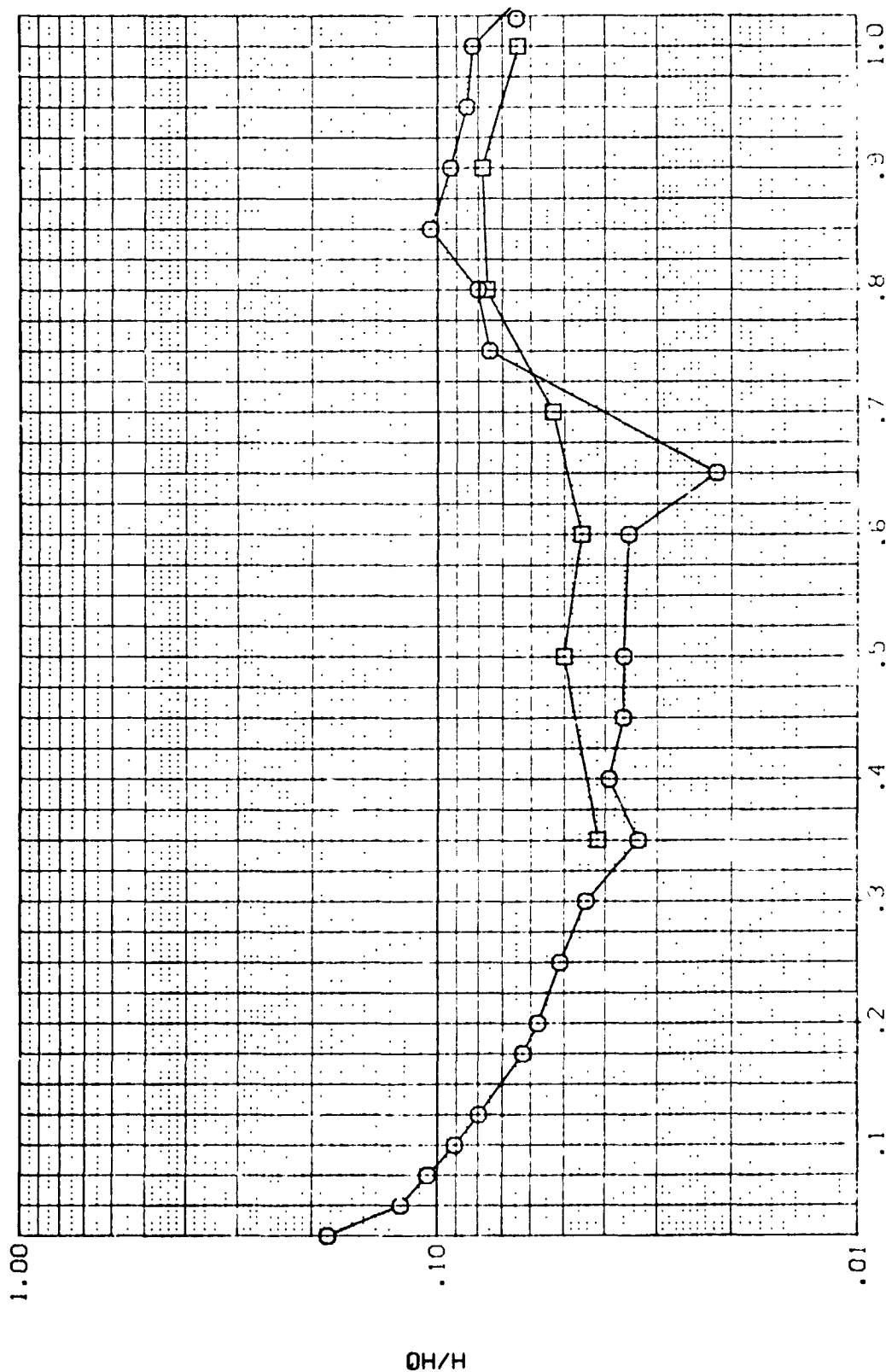


FIG 7 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLW03) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL 2V/B
 .400
 .600
 .800

MAV/HT
 .850 1.000

ALPHA
 MACH

PARAMETRIC VALUES
 25.000 BETA
 8.000 .000

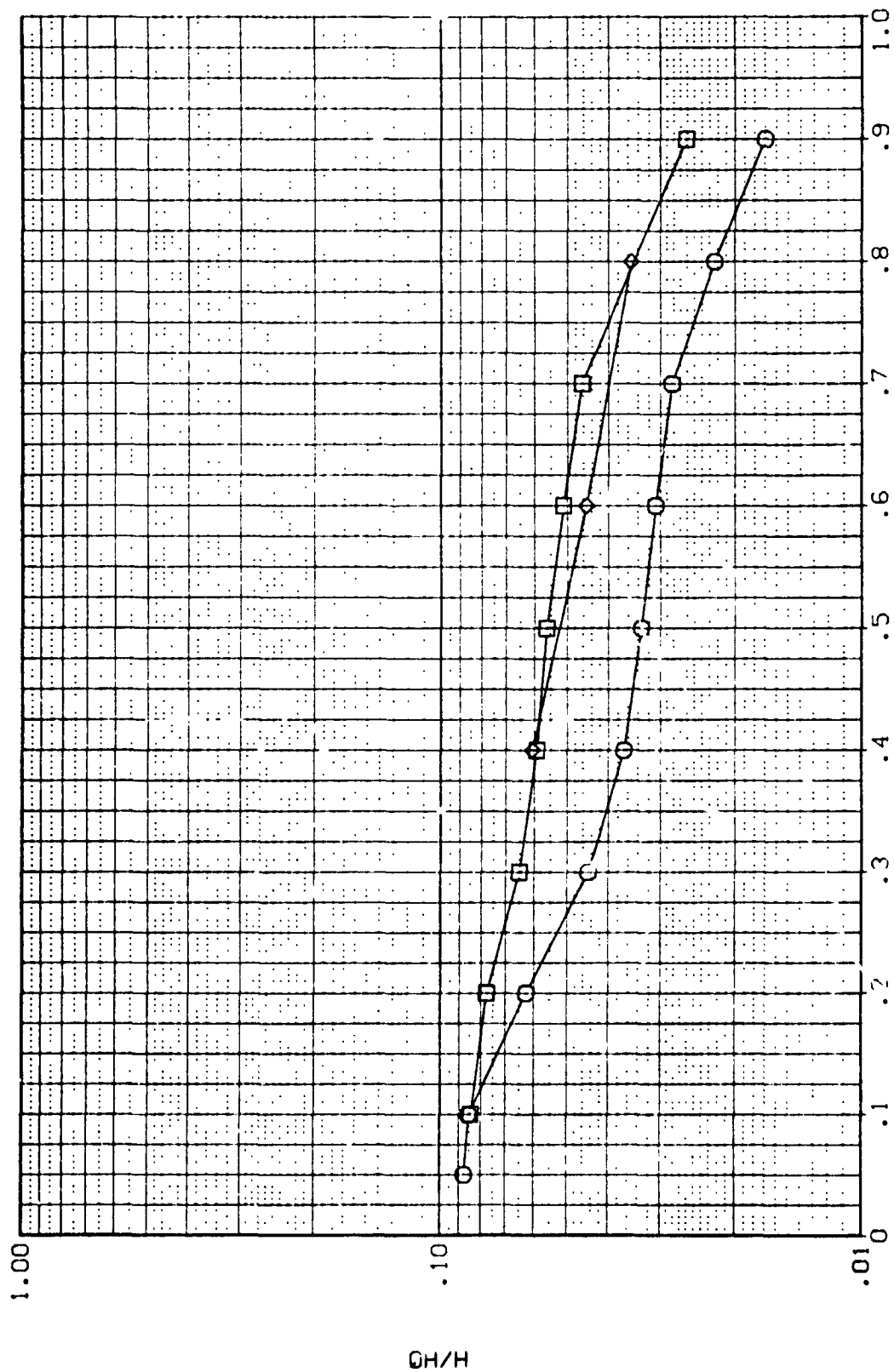


FIG 8 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 WING LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLW03) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL 2Y/B
 .400
 .600
 .800

HAN/HT
 .900 1.000

ALPHA
 MACH

PARAMETRIC VALUES
 25.000 BETA
 8.000 .000

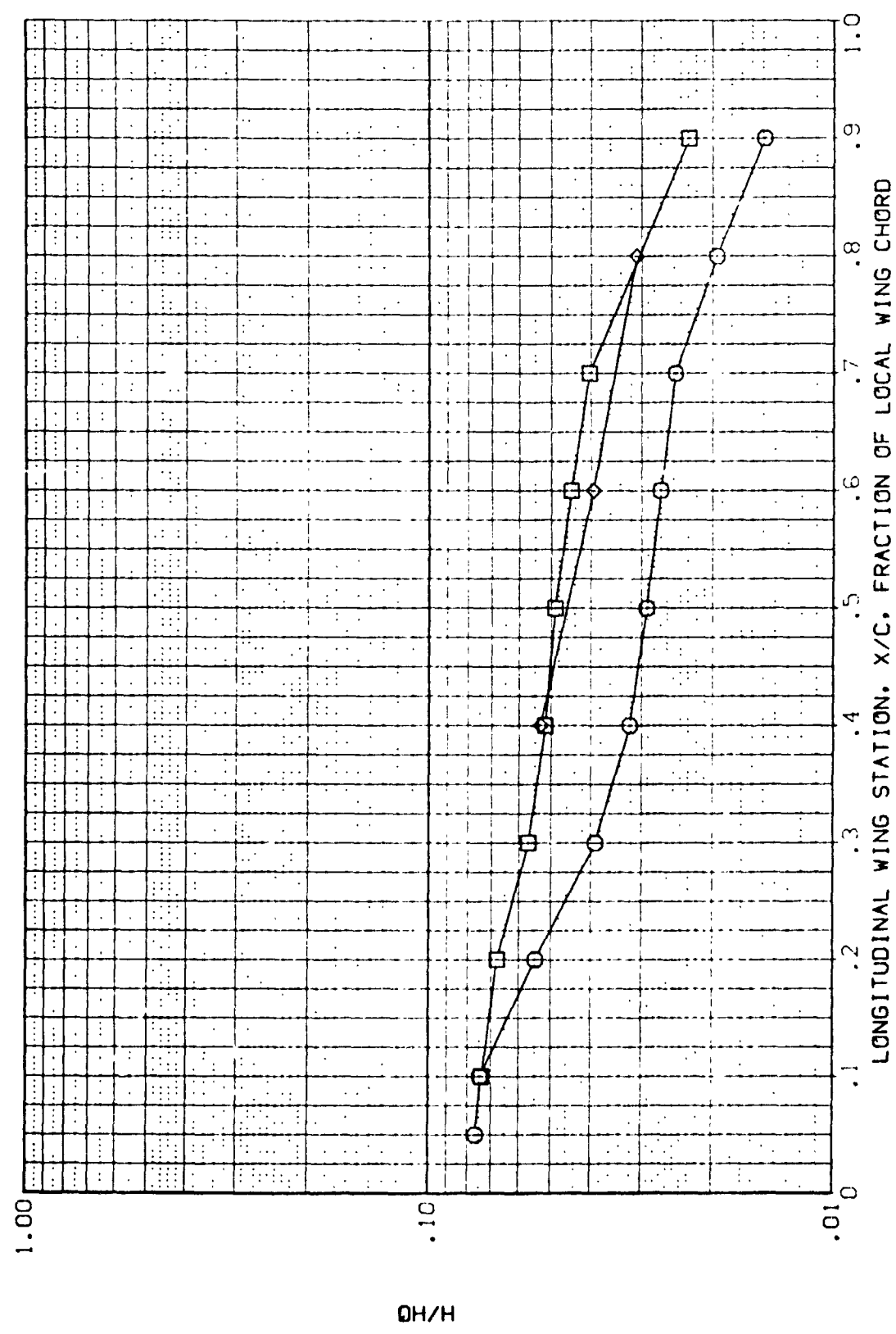


FIG 8 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 WING LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLW03) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

| | | | | | |
|--------|------|--------|-------|-------|-------------------|
| SYMBOL | 2Y/B | MAV/MT | RN/L | ALPHA | PARAMETRIC VALUES |
| | .400 | .850 | 3.000 | MACH | 25.000 BETA |
| | .600 | | | | 8.000 |
| | .800 | | | | .000 |

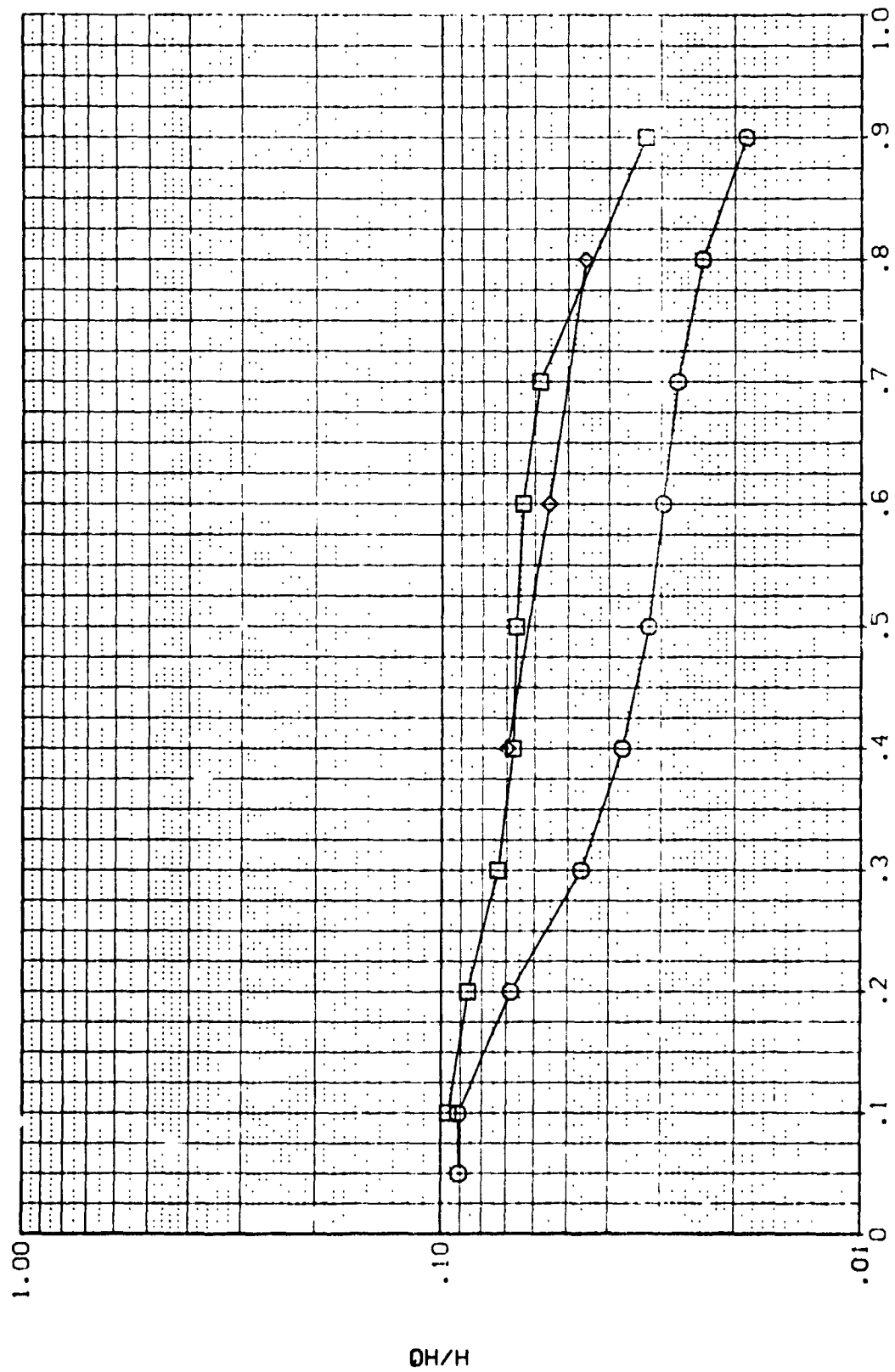


FIG 8 WING LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RGLW03) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL 2%
 .400
 .600
 .800

HAW/HT
 .900 3.000

PARAMETRIC VALUES
 ALPHA MACH
 25.000 8.000

.000

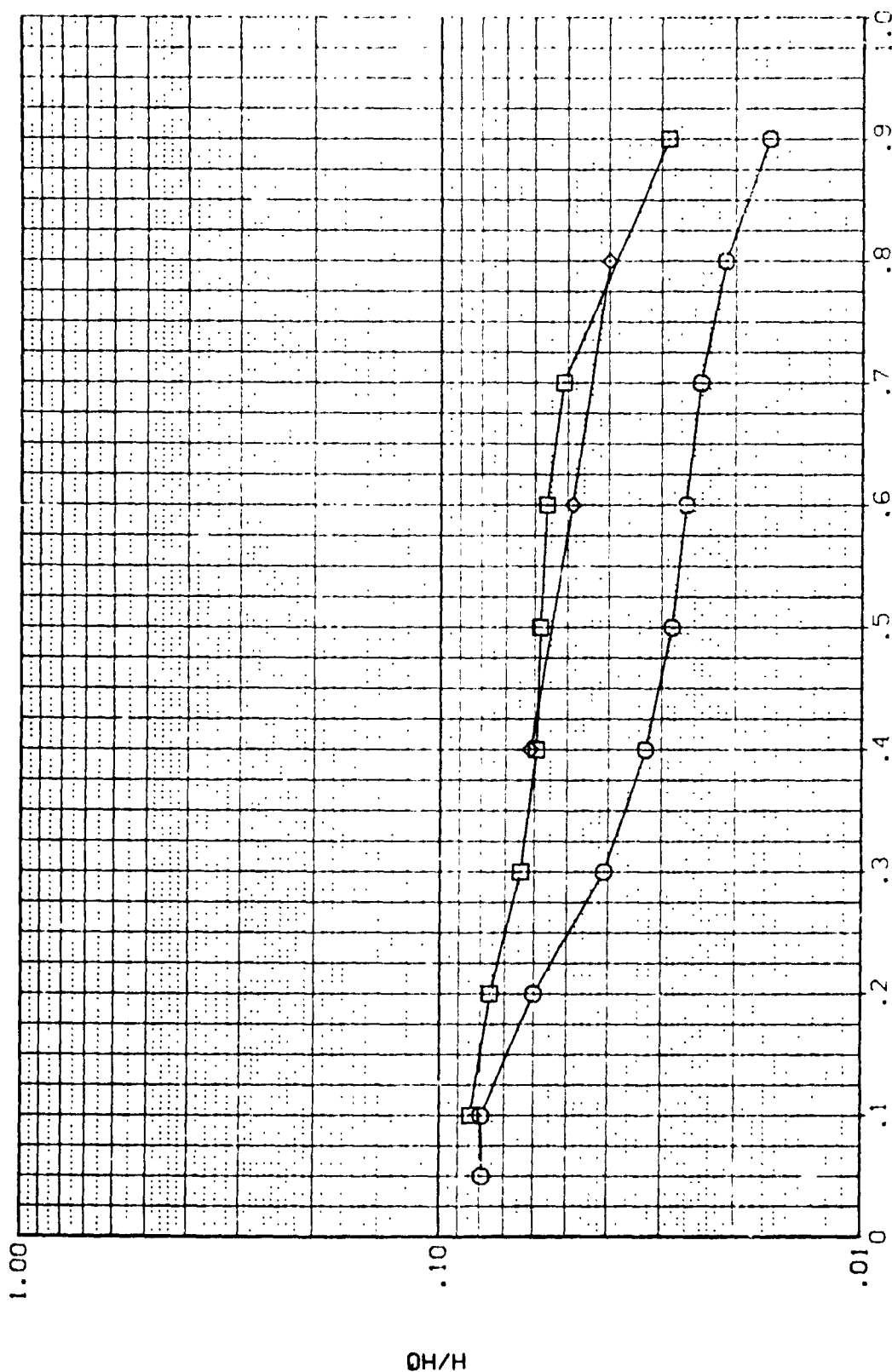


FIG 8 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 WING LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLW03) 0H14 E22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL 2Y/B
 400
 500
 600

MAX/HT
 .850

RN/L
 4.000

PARAMETRIC VALUES
 ALPHA
 MACH
 25.000
 8.000
 BETA
 .000

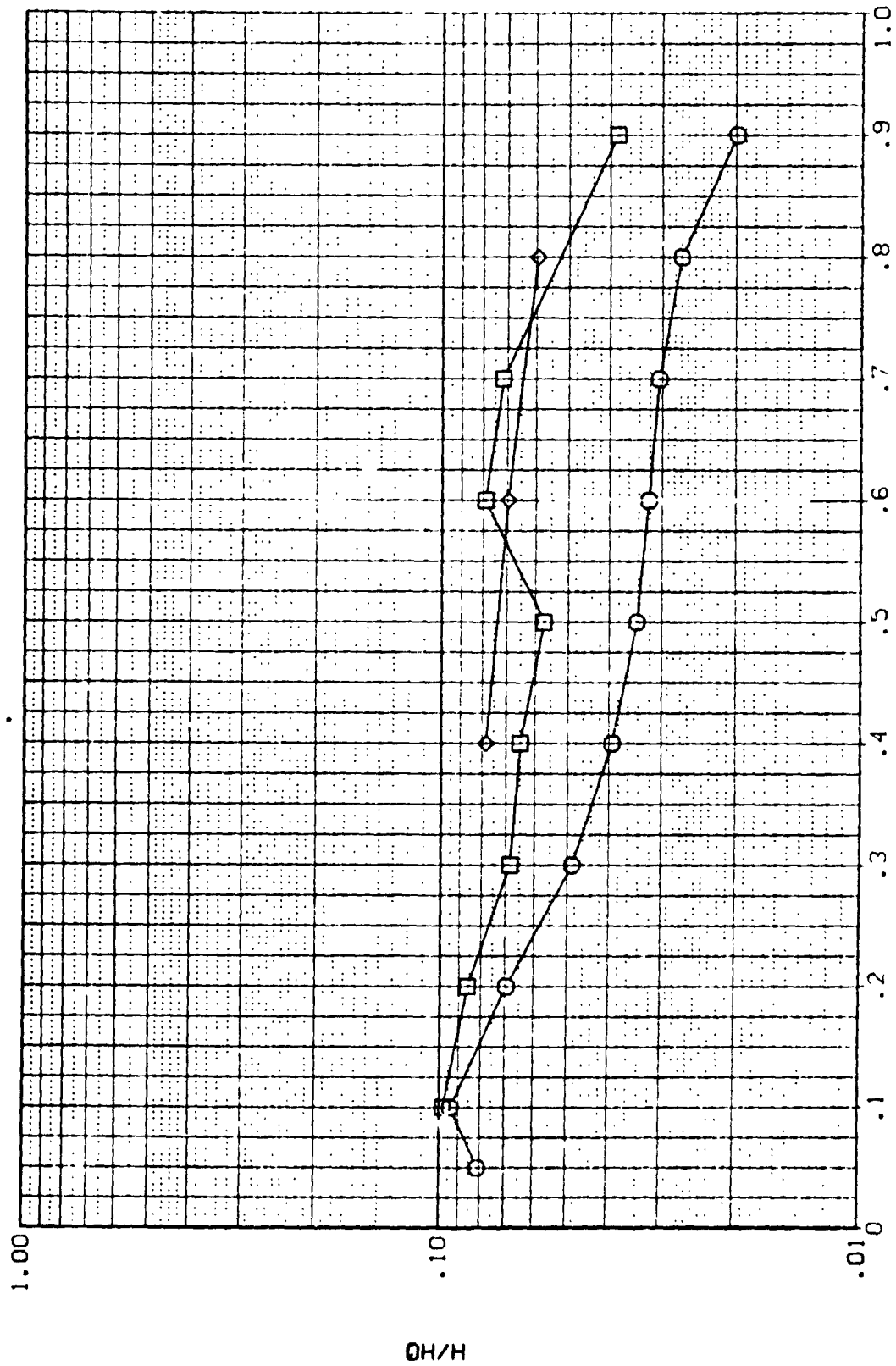


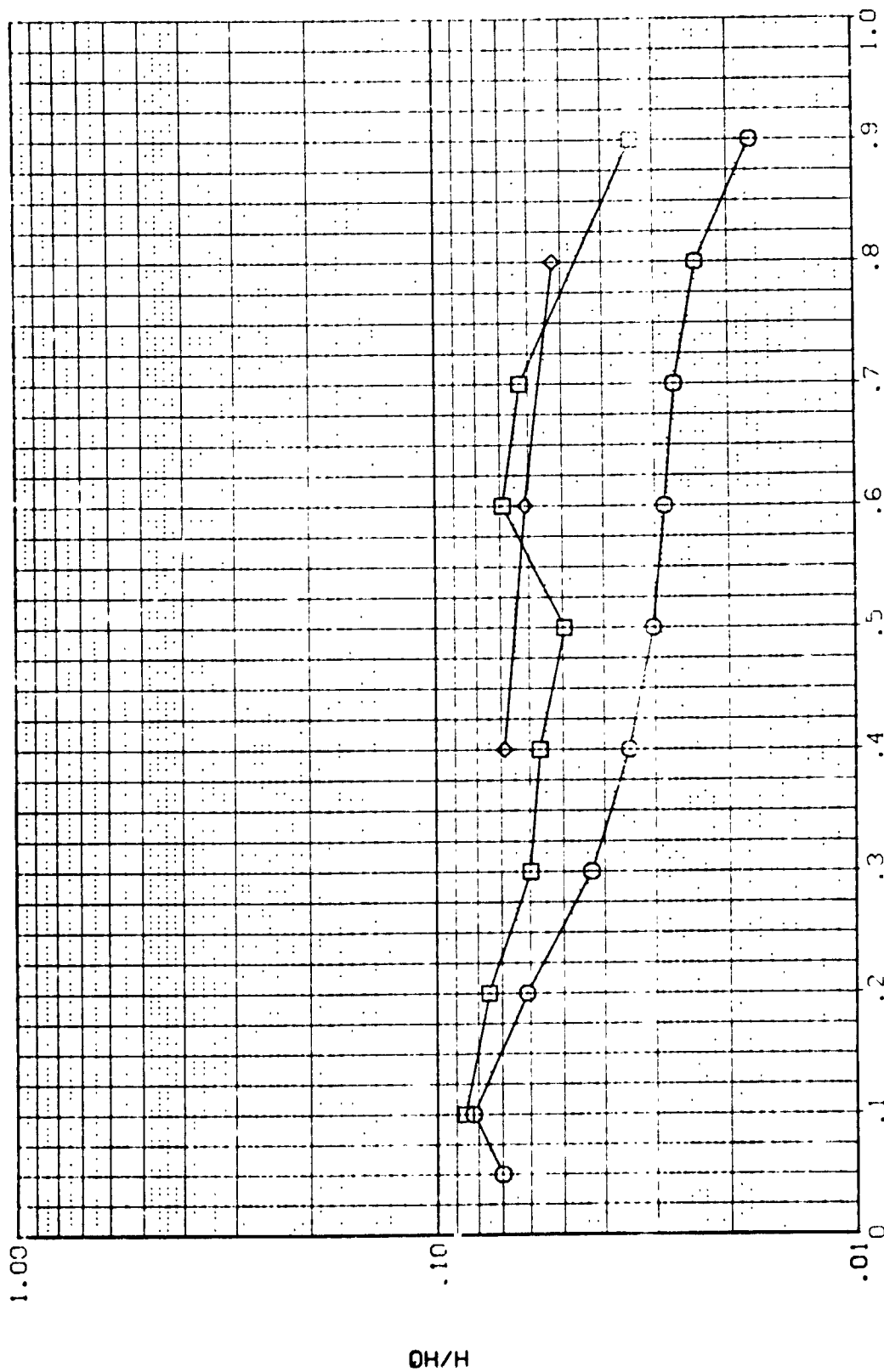
FIG 8 LONGITUDINAL WING STATION. X/C. FRACTION OF LOCAL WING CHORD
 WING LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLW03) 0H14 B22C7FSM4V7W111 WING LOWER SURFACE

SYMBOL 2Y/B
 0.400
 0.600
 0.800

MAW/JHT RN/L
 .900 4.000

PARAMETRIC VALUES
 ALPHA 25.000
 MACH 8.000
 BETA .000



LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD

FIG 8 WING LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLW03) CH14 B22C7F5M4V7W111 WING LOWER SURFACE

| | | | | | |
|--------|------|--------|-------|-------|-------------------|
| SYMBOL | 2Y/B | HAW/HY | RM/L | ALPHA | PARAMETRIC VALUES |
| ◇ | .400 | .950 | 5.000 | MACH | 25.000 |
| ○ | .600 | | | | 8.000 |
| □ | .800 | | | | .000 |

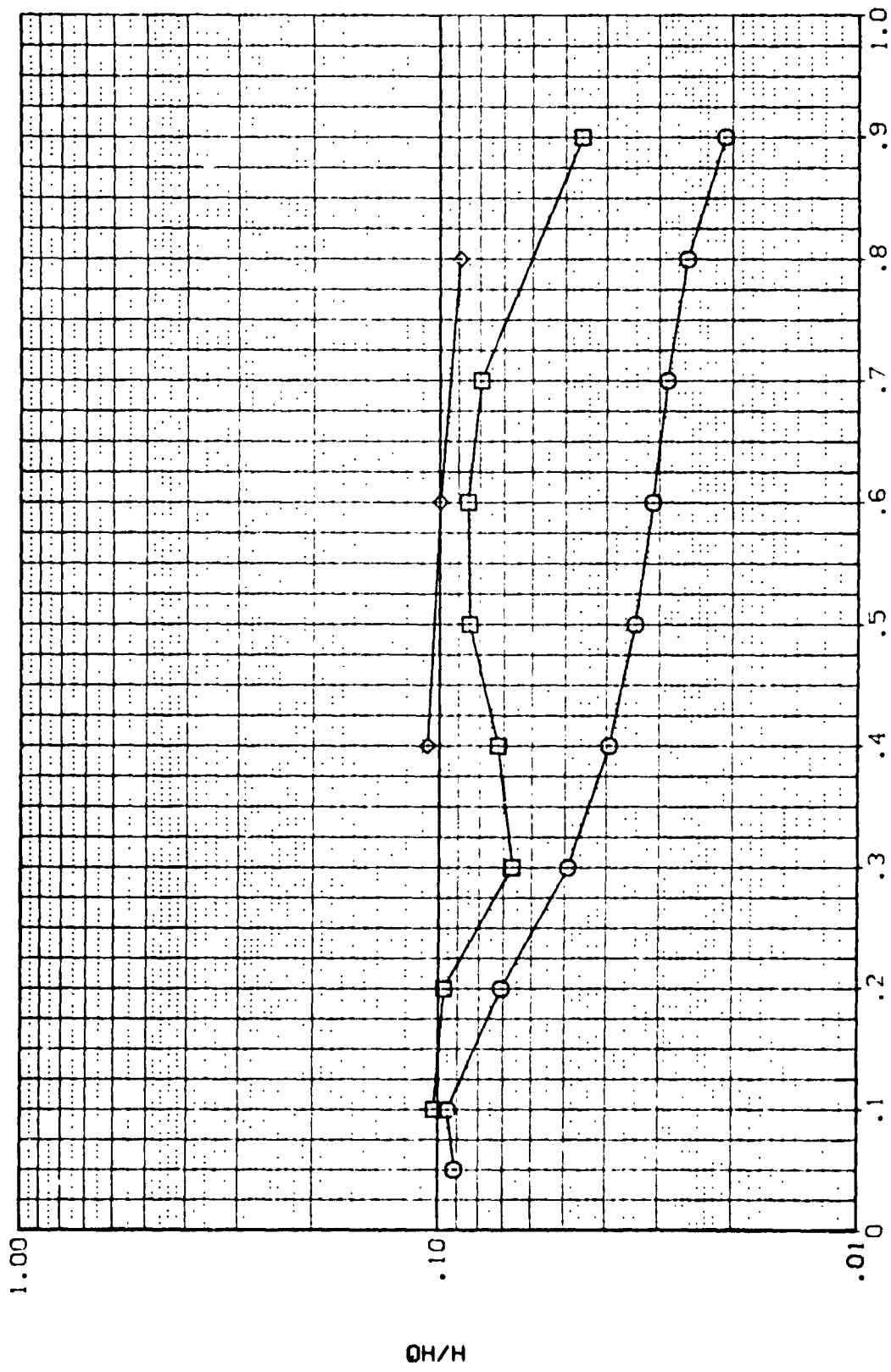


FIG 8 WING LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RDLW03) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL 2X/B
 .400
 .600
 .800

HA/L HT
 .900 5.000

ALPHA
 MACH

PARAMETRIC VALUES
 25.000 BETA
 8.000 .000

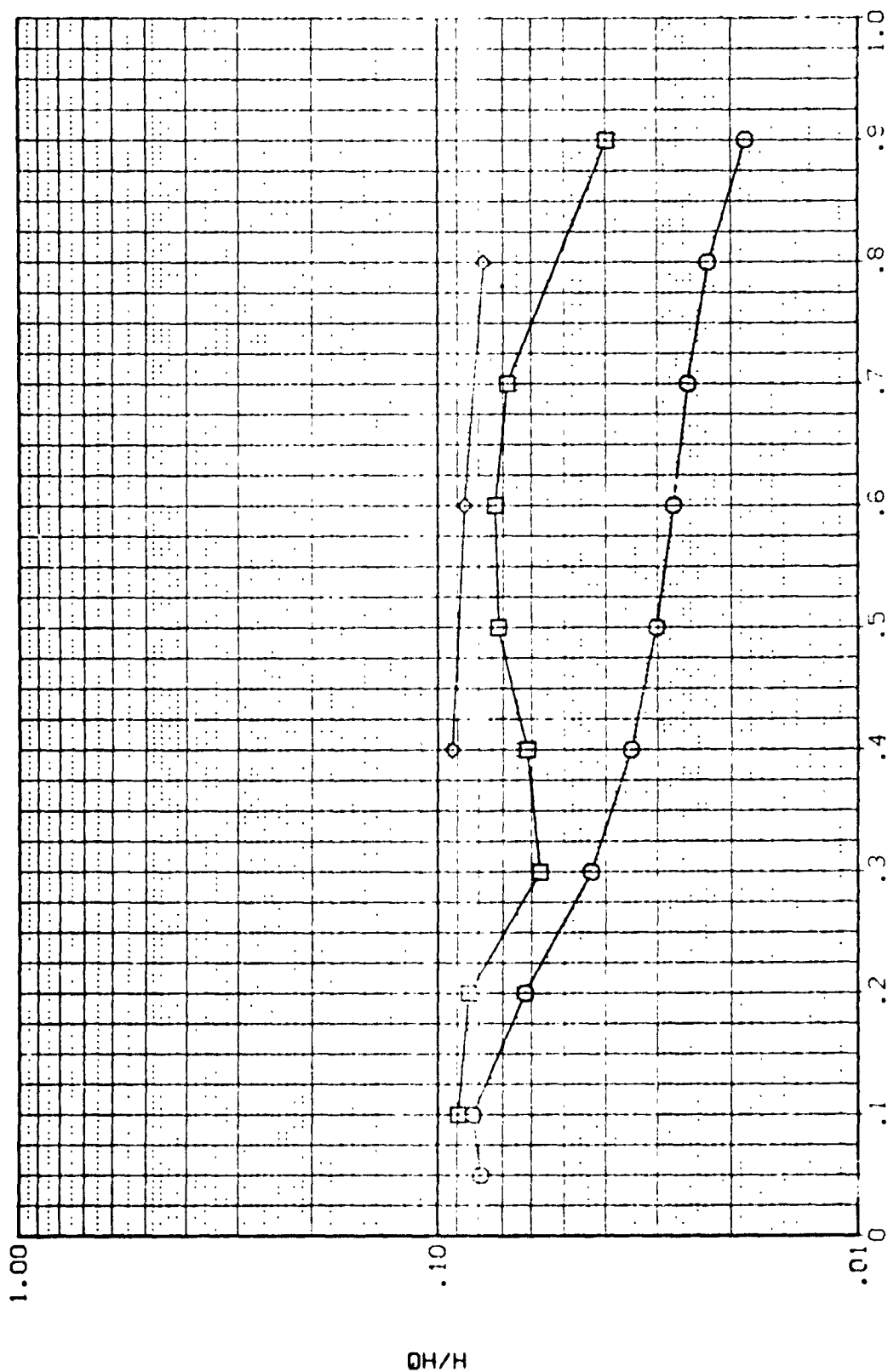


FIG 8 WING LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLW03) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYNTHETIC
2Y/B
0.400
0.600
0.800

HAW/HY
0.850

RM/L
5.000

PARAMETRIC VALUES
ALPHA
MACH
25.000
8.000
BETA
0.000

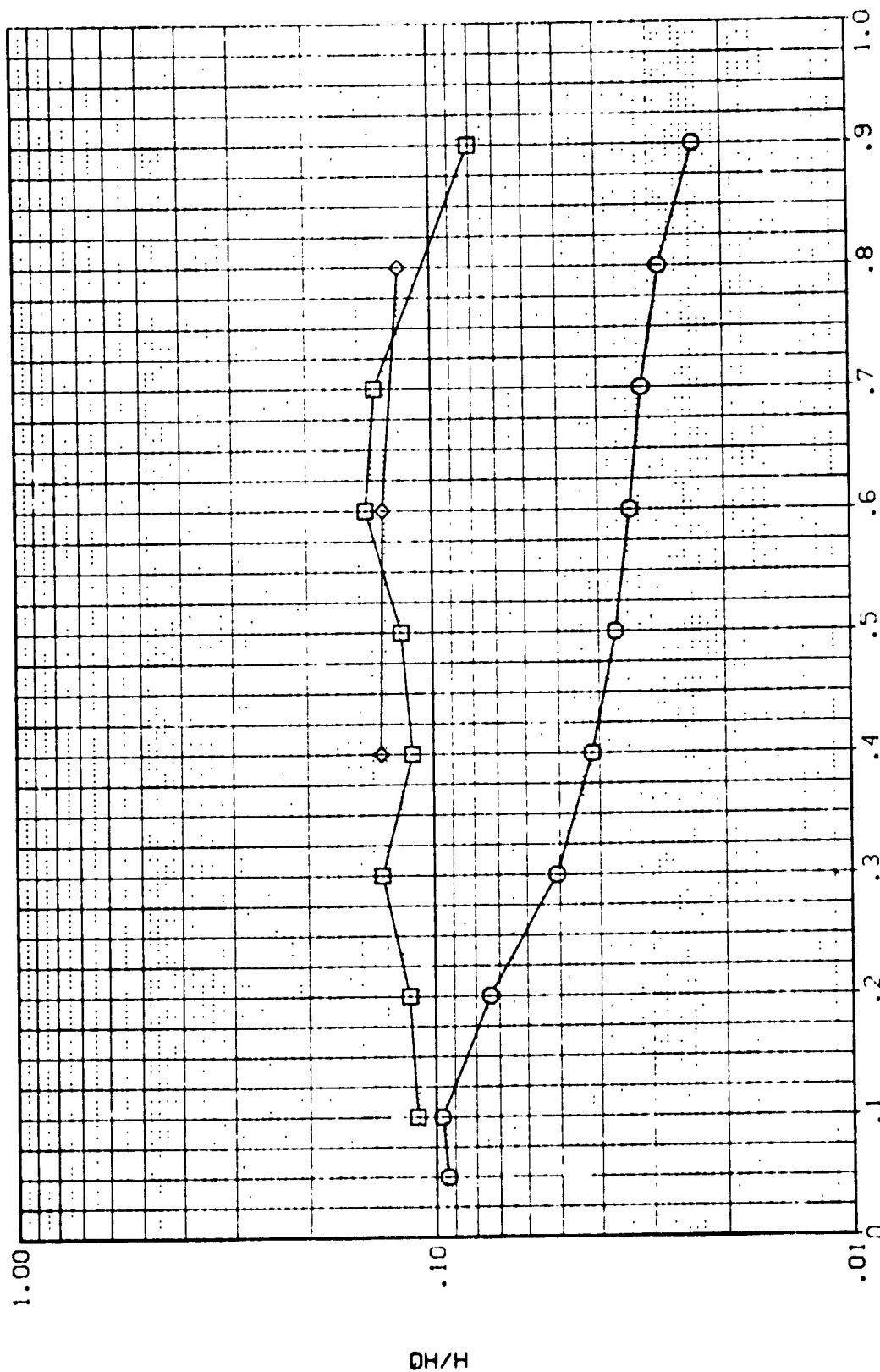


FIG 8 WING LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLW03) CH14 B22C7F5M4V7W111 WING LOWER SURFACE

| | | | | | |
|--------|------|--------|-------|-------|-------------------|
| SYMBOL | 2V/B | MAV/MT | RM/L | ALPHA | PARAMETRIC VALUES |
| | .400 | .900 | 6.000 | MACH | 25.000 BETA |
| | .600 | | | | 8.000 |

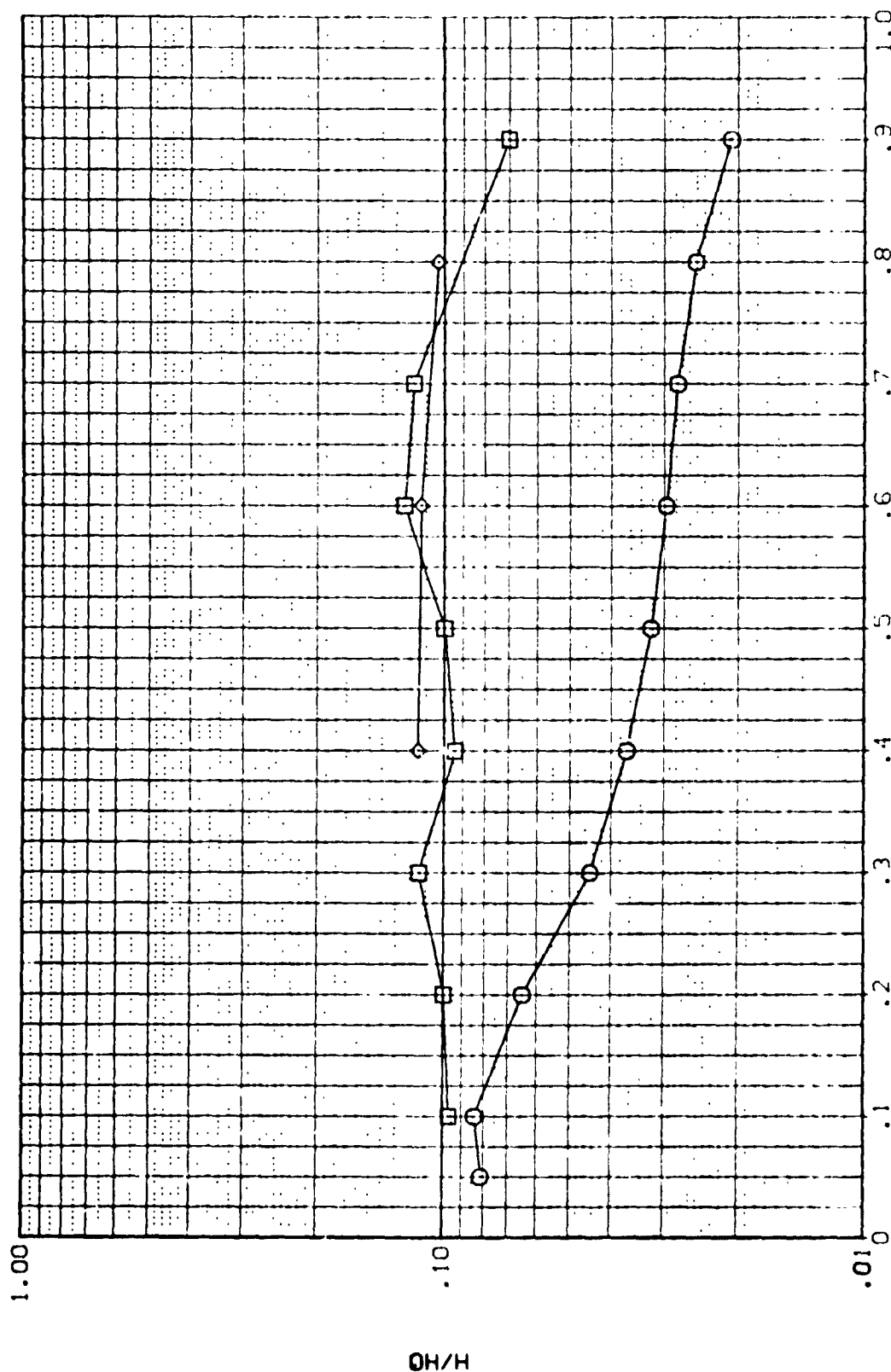


FIG 8 WING LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLW03) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL 2V/B
 400
 500
 600

MAV/MT RN/L
 .650 8.000

PARAMETRIC VALUES
 ALPHA 25.000
 MACH 8.000 BETA .000

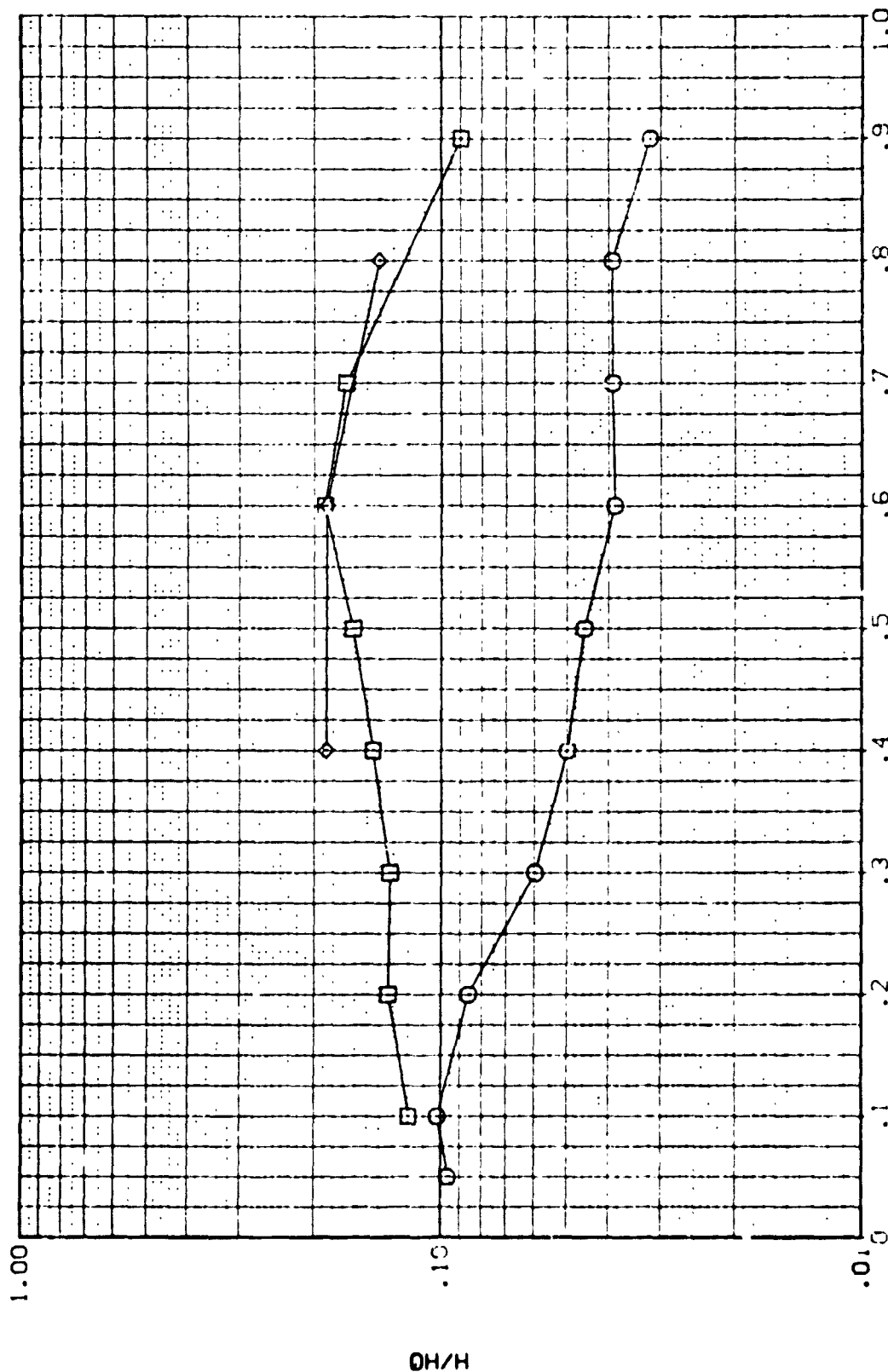


FIG 8 LONGITUDINAL WING STATION. X/C. FRACTION OF LOCAL WING CHORD
 WING LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLW03) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL 2V/B
 .400
 .600
 .800

MAV/MT RN/L
 .900 8.000

PARAMETRIC VALUES
 ALPHA MACH
 25.000 8.000
 BETA .000

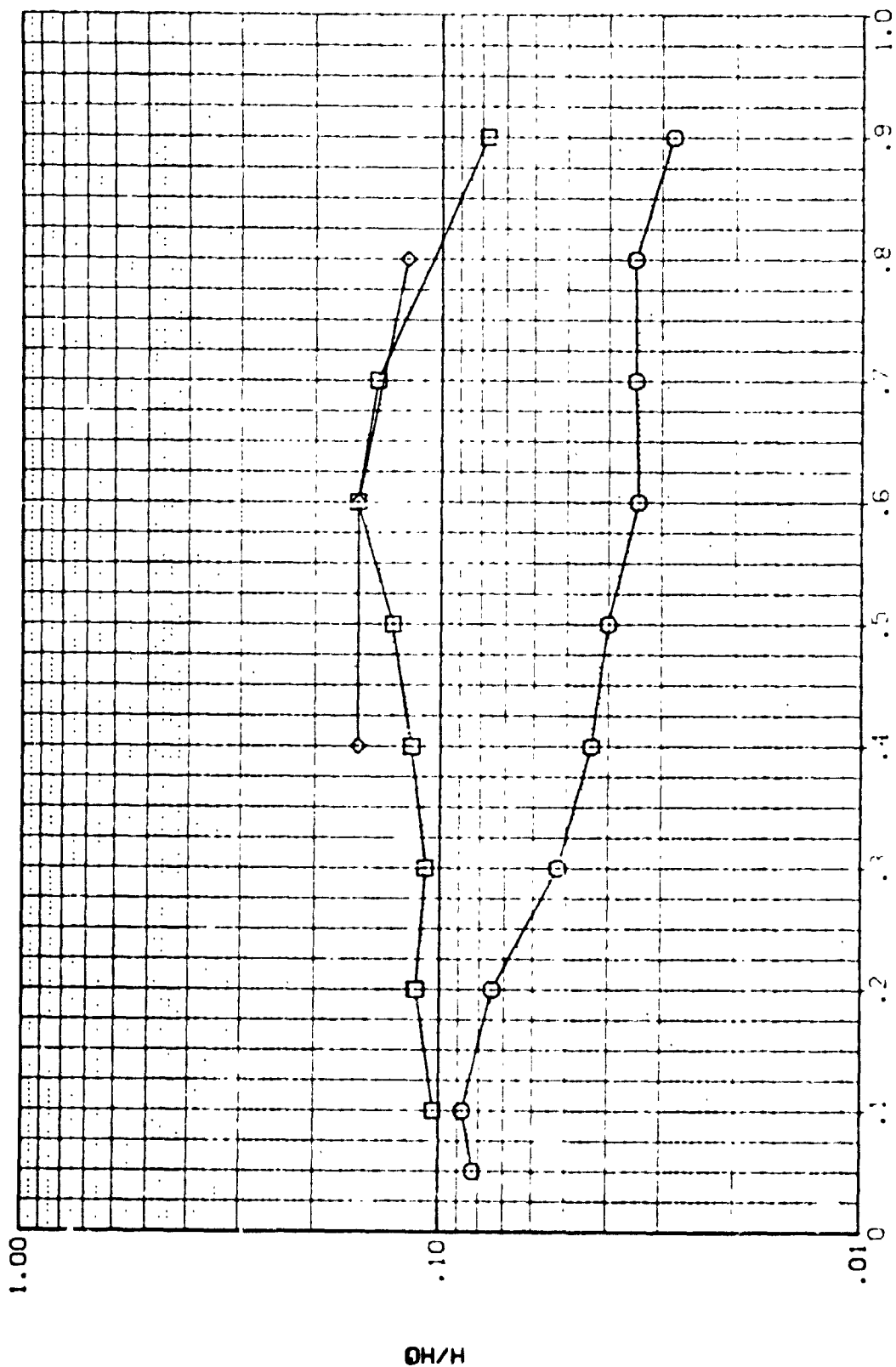


FIG 8 LONGITUDINAL WING STATION. X/C. FRACTION OF LOCAL WING CHORD
 WING LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RGLW03) OH14 B22C7FSM4V7W111 WING LOWER SURFACE

SYMBOL 2V/B .400
 .500
 .800

MAW/T .850
 RN/L 10.000

PARAMETRIC VALUES
 ALPHA MACH
 25.000 BETA
 9.000 .000

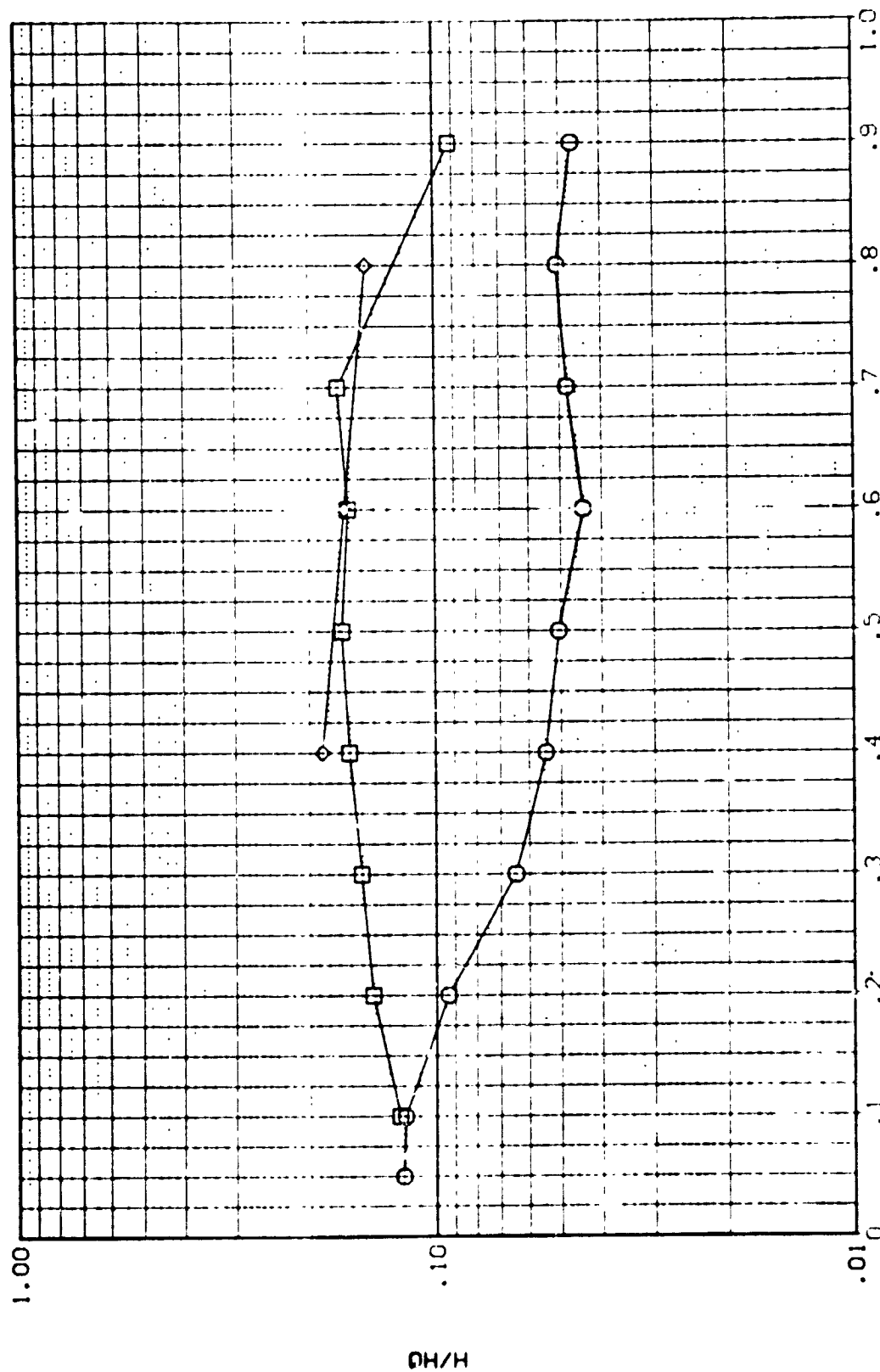


FIG 8 WING LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(R01V03) 0H14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL 2V/B
 .400
 .600
 .800

HA/W/HT .900
 RN/L 10.000

PARAMETRIC VALUES
 ALPHA 25.000
 MACH 6.000
 BETA .000

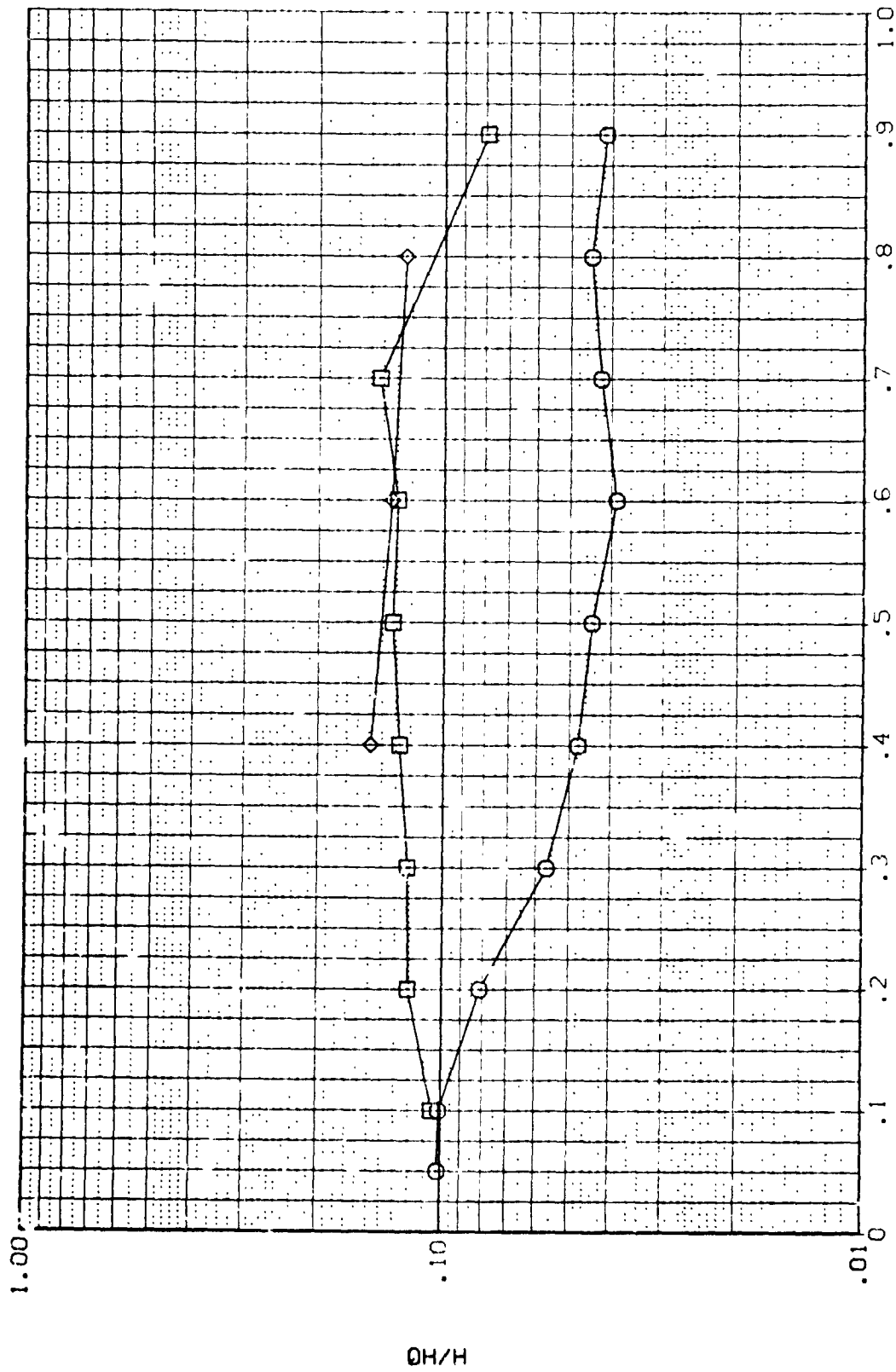


FIG 8 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
 WING LOWER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLS03) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL M.P.
 375.000
 400.000
 425.000
 450.000
 475.000

MA/HI RN/L
 .850 1.000

PARAMETRIC VALUES
 ALPHA MACH
 25.000 8.000
 BETA .000

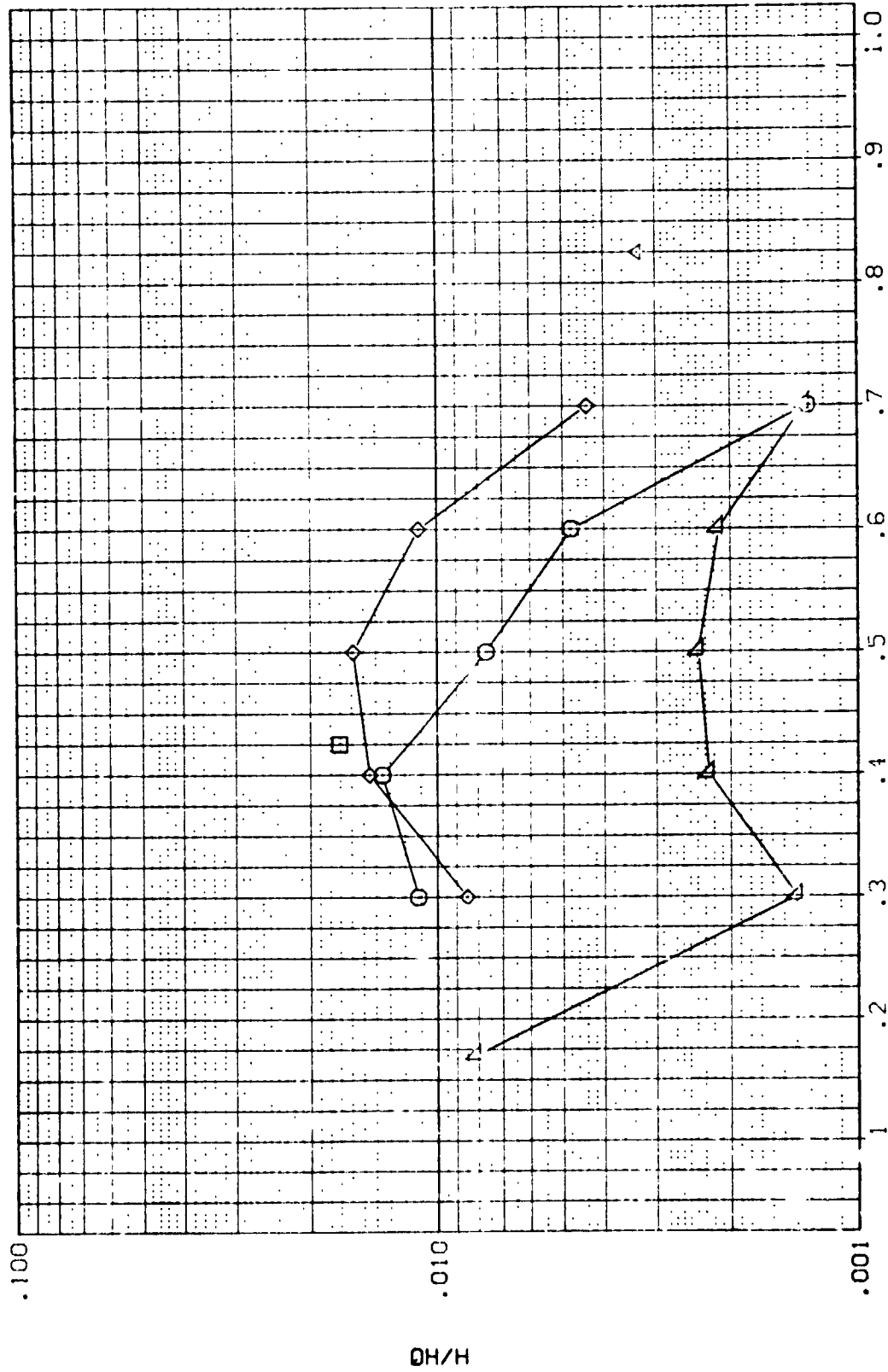


FIG 3 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(R0LS03) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL V.P.
 375.000
 400.000
 425.000
 465.000
 501.000

MAV/HT RN/L
 .900 1.000

PARAMETRIC VALUES
 ALPHA MACH
 25.000 8.000
 BETA .000

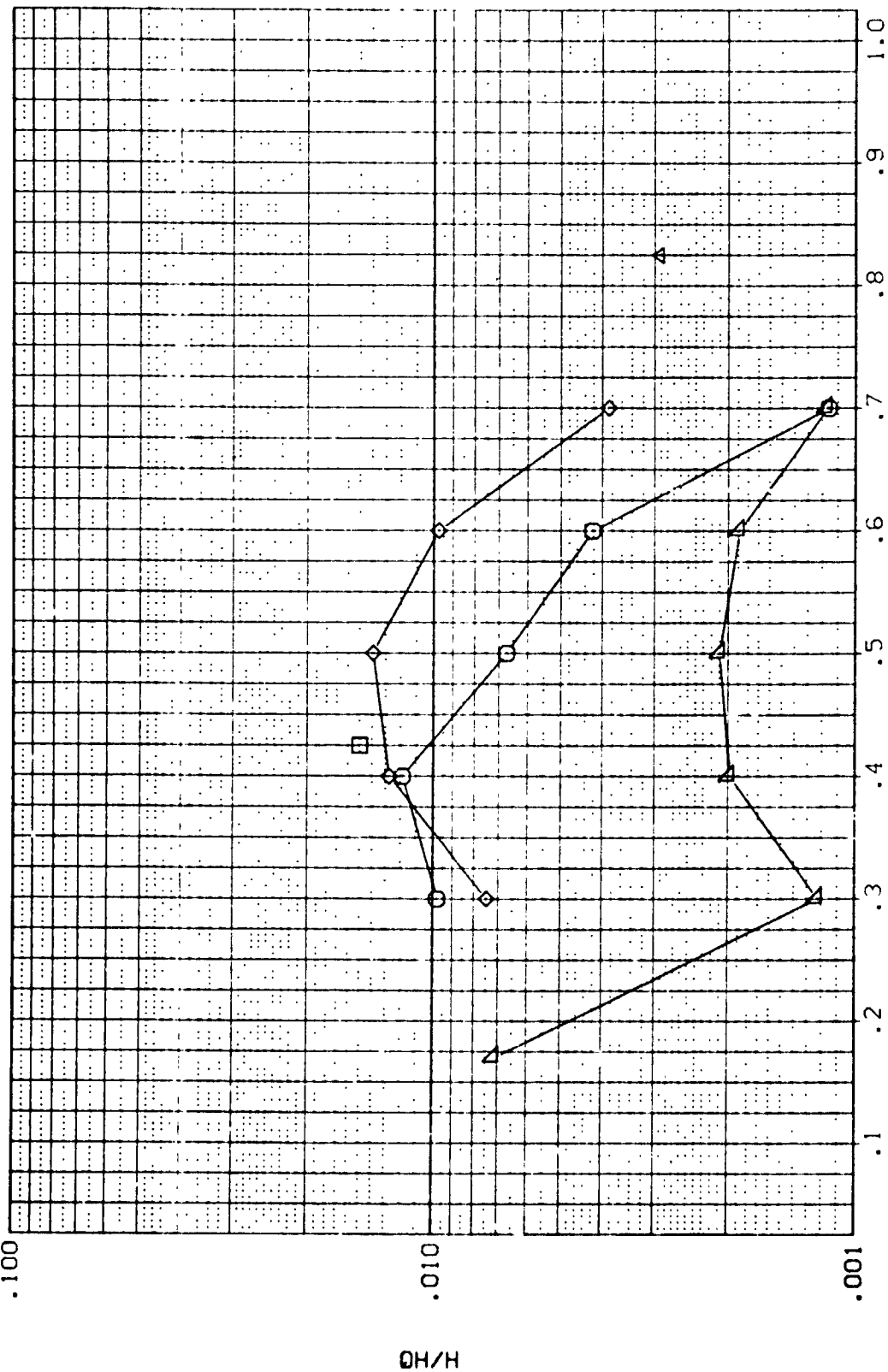


FIG 9 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLS03) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL V.P.
 375.000
 400.000
 425.000
 465.000
 501.000

HAV/H T RN/L
 .850 3.000

PARAMETRIC VALUES
 ALPHA MACH
 25.000 8.000
 BETA .000

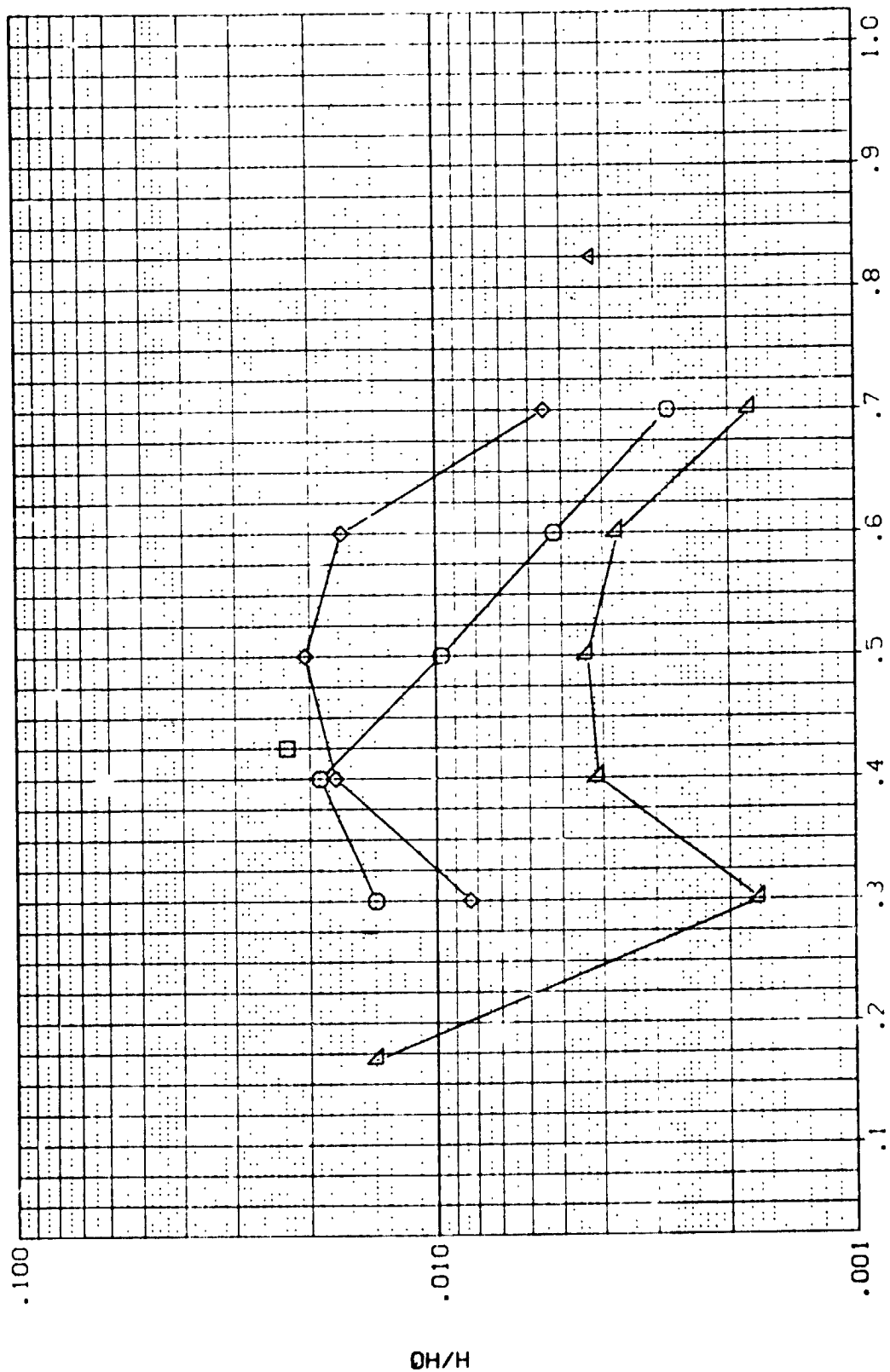


FIG 9 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(R0LS03) OH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE

SYMBOL V.P.
 375.000
 400.000
 425.000
 465.000
 501.000

MAN/HT
 .900
 3.000

PARAMETRIC VALUES
 ALPHA MACH
 25.000 8.000
 .000

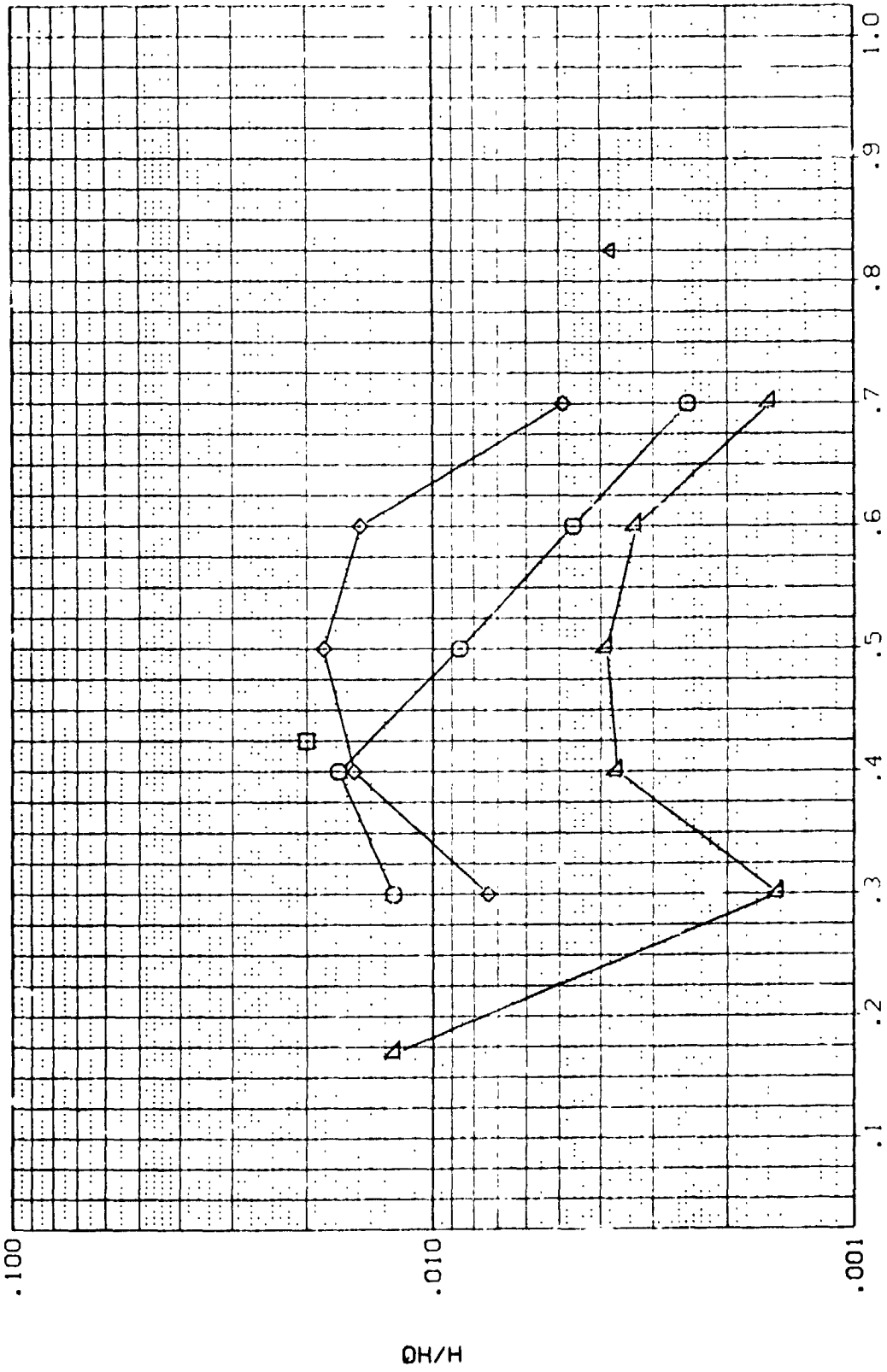


FIG 9 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLS03) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 ALPHA 25.000 BETA .000
 MACH 8.000

WAV/HT .850 RN/L 4.000

SYMBOL W.P.
 375.000
 400.000
 425.000
 465.000
 501.000

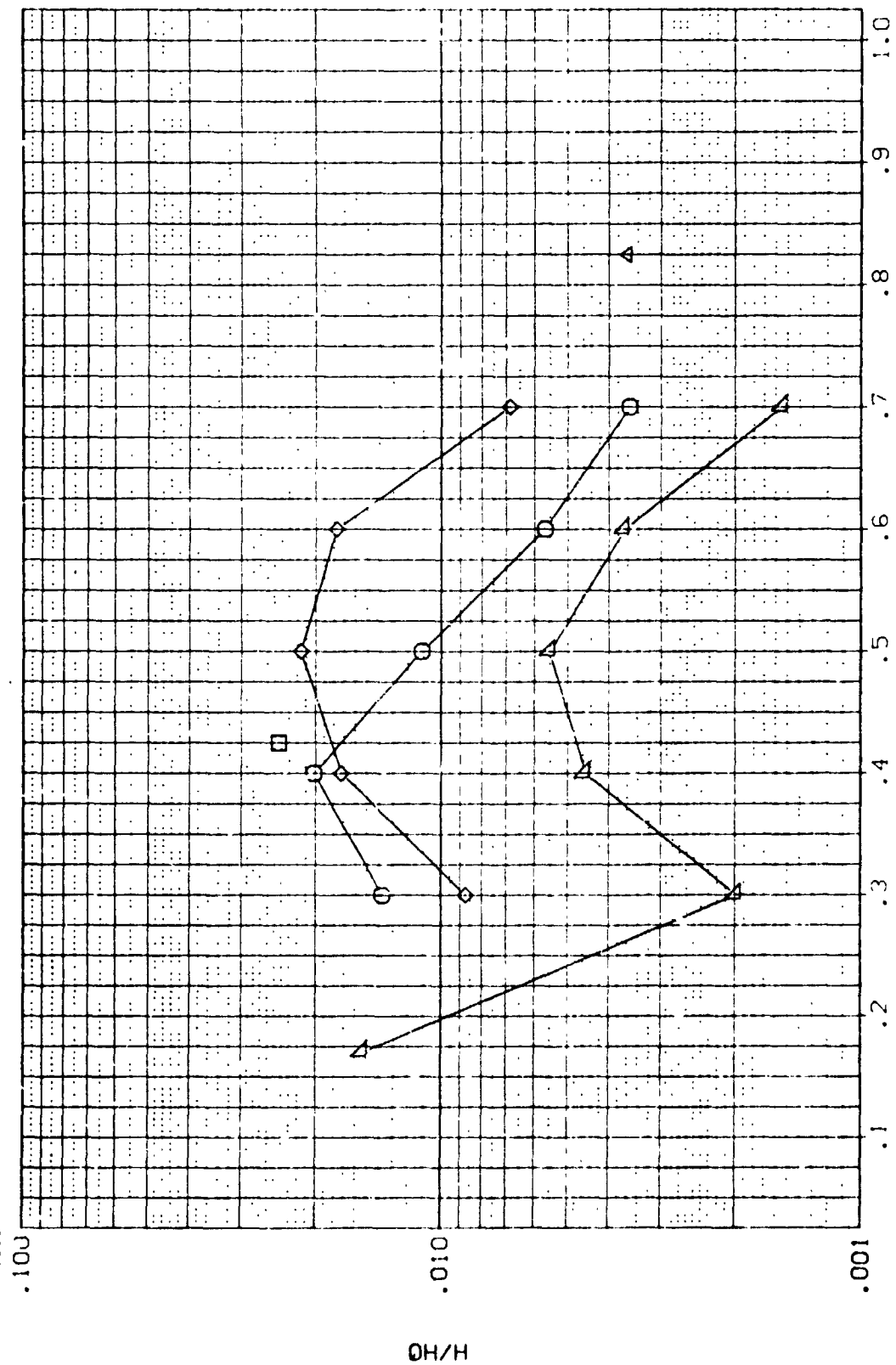


FIG 9 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLS03) 0H14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
25.000 BETA .000
8.000

ALPHA
MACH

HAB/HT .900
RN/L 4.000

U.P.
375.000
400.000
425.000
450.000
501.000

SYMBOLS
□ ○ △

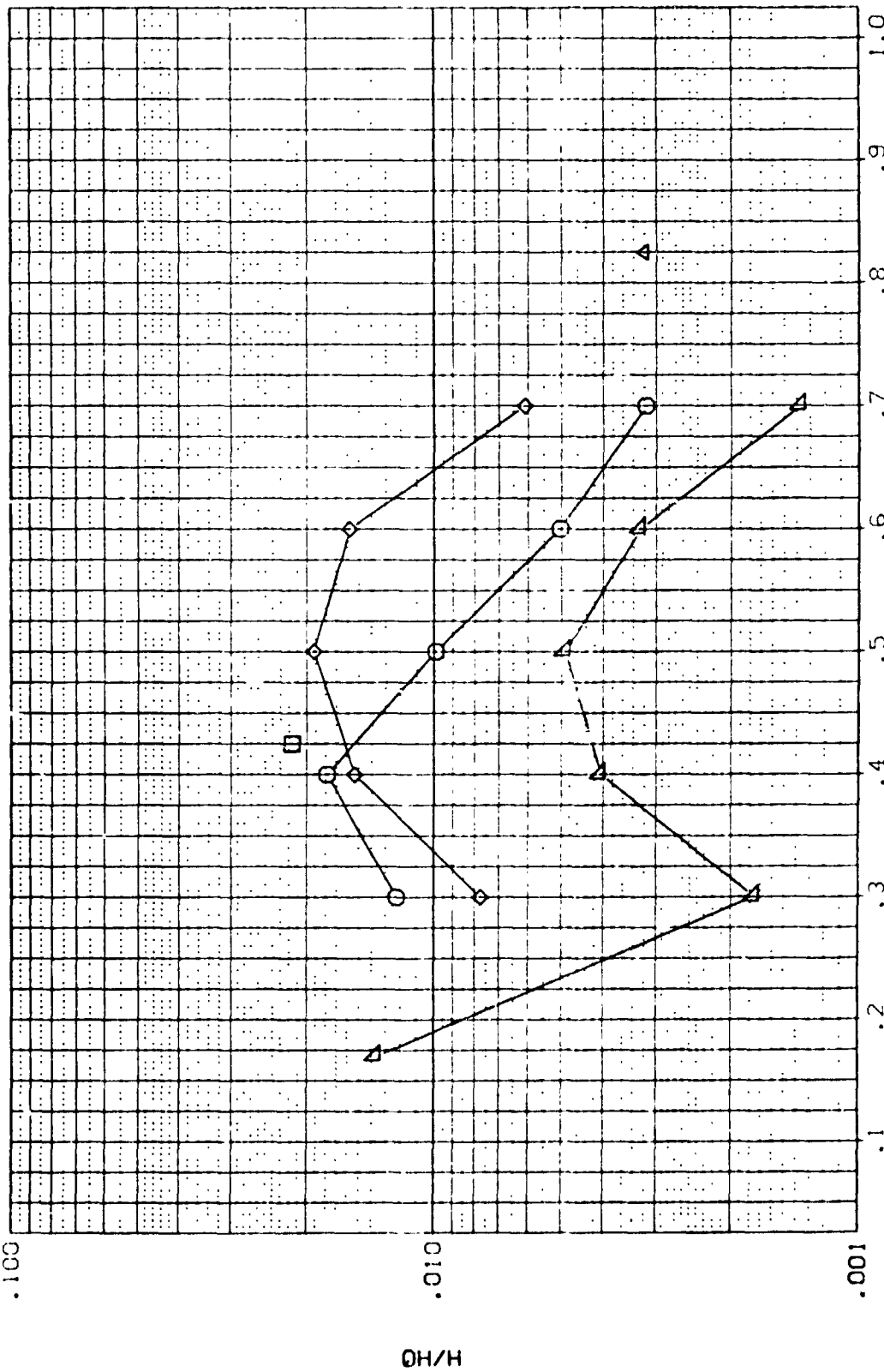


FIG 9 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE UPPER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(R0LS03) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
25.000 BETA
8.000

ALPHA
HACH

MAW/WT .850
RN/L 5.000

V.P.
SYMBOL
375.000
400.000
425.000
450.000
501.000

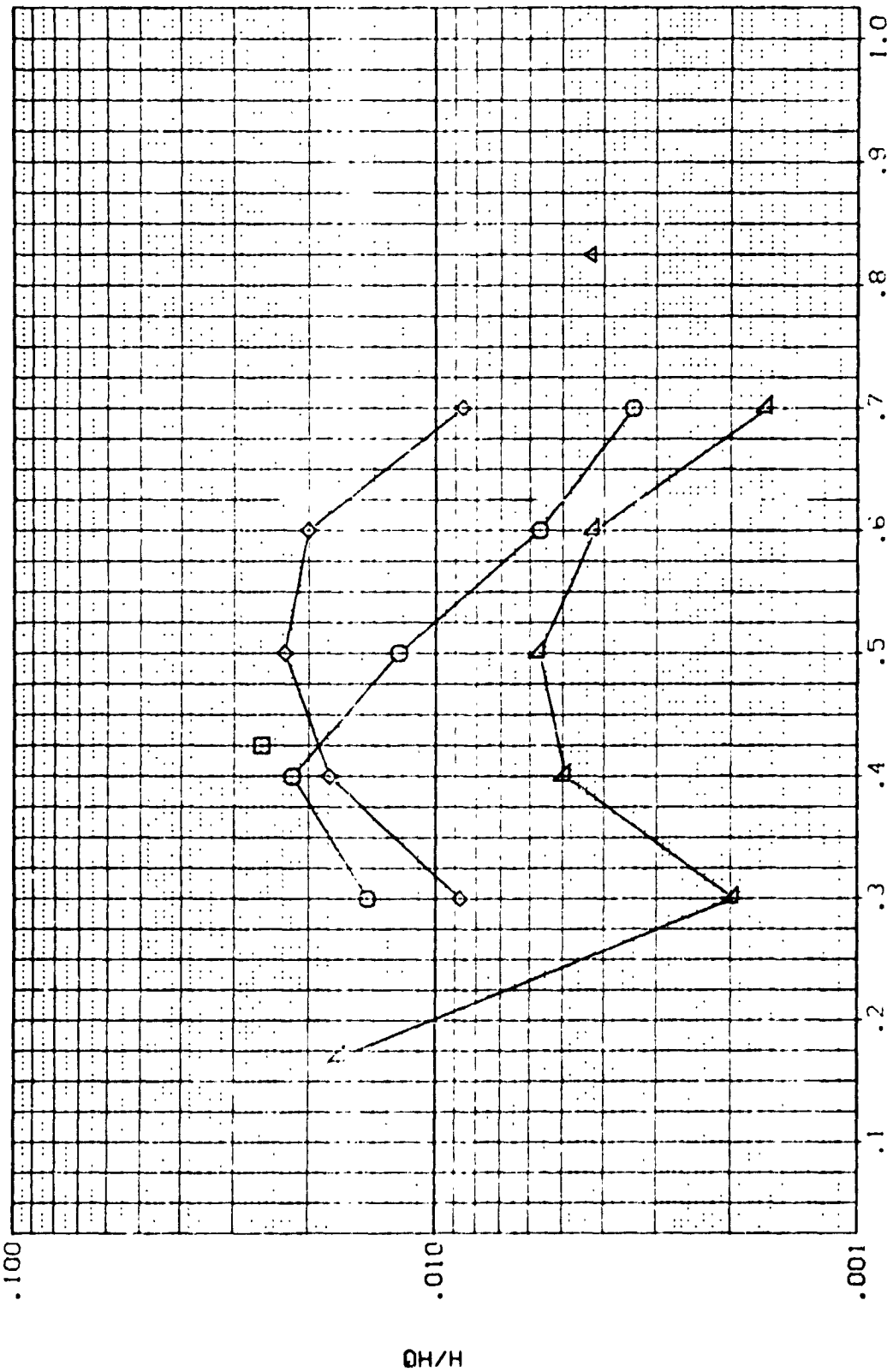


FIG 9 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
FUSELAGE UPPER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLS03) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
ALPHA 25.000
MACH 8.000
BETA .000

SYMBOL V.P. HAV/HT RN/L
375.000
400.000
425.000
465.000
501.000

OH/H

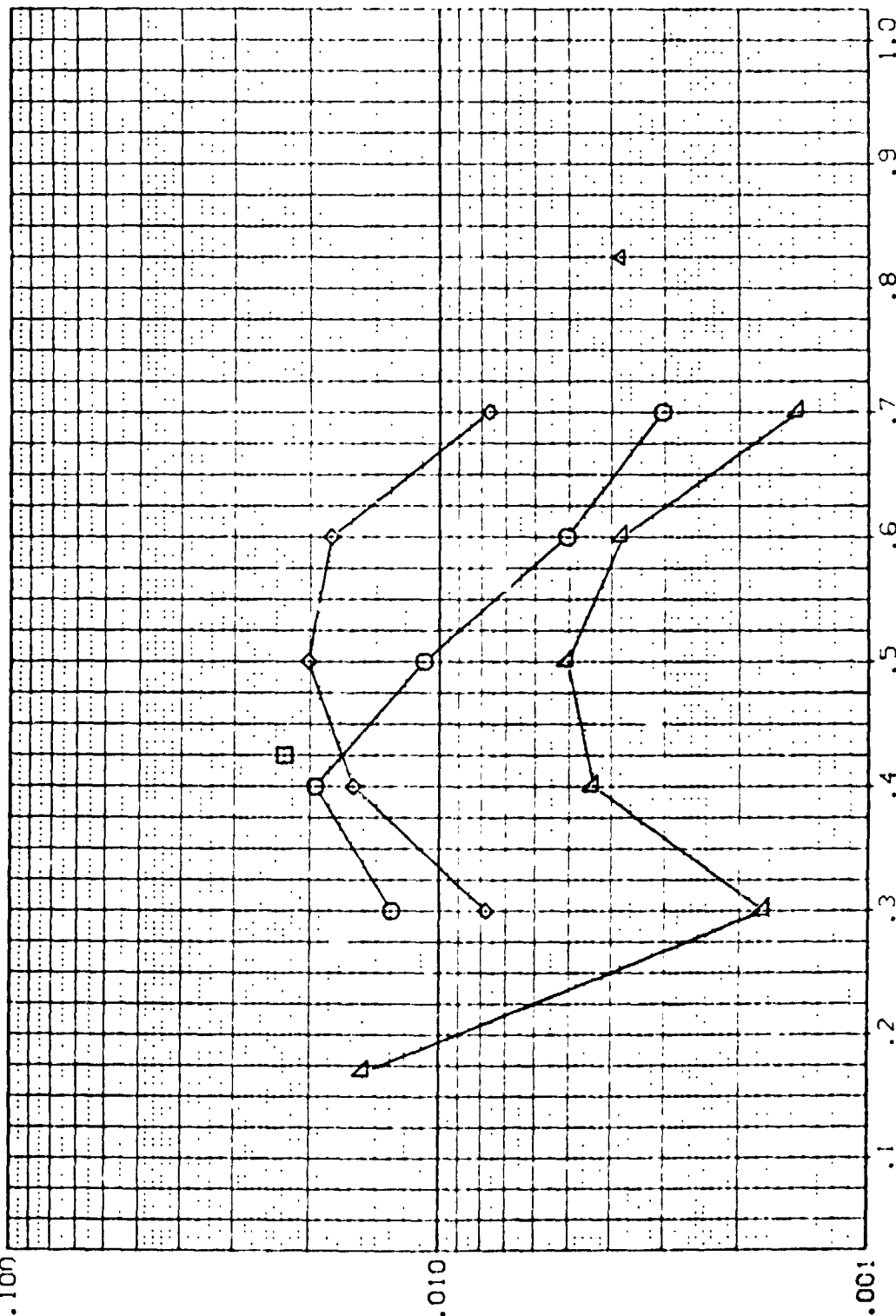


FIG 9 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE UPPER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(R0LS03) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL W.P.
 375.000
 400.000
 425.000
 465.000
 501.000
 .100

MAW/MT .850
 PN/L 6.000

ALPHA
 MACH

PARAMETRIC VALUES
 25.000 BETA
 8.000 .000

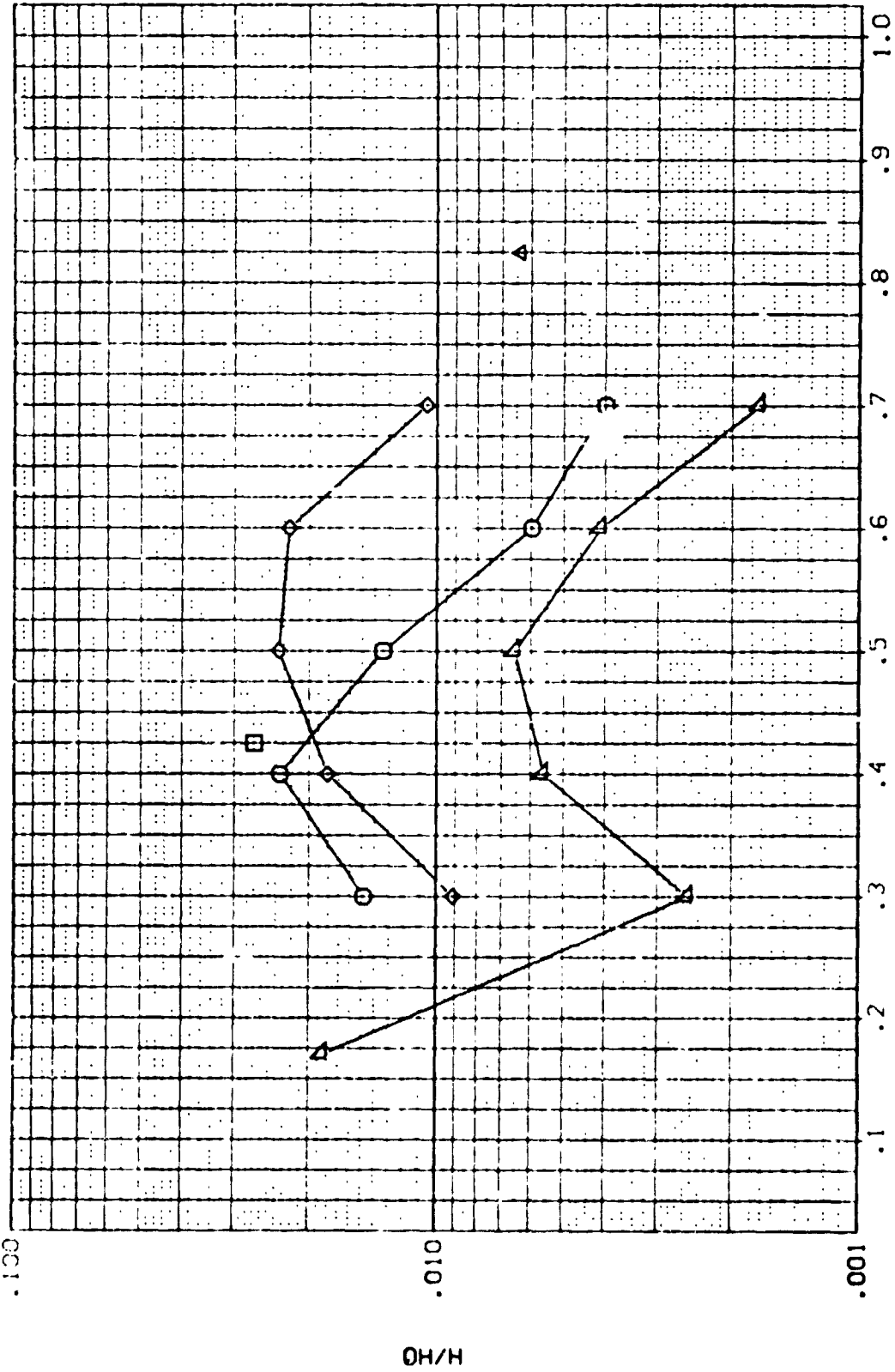


FIG 9 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

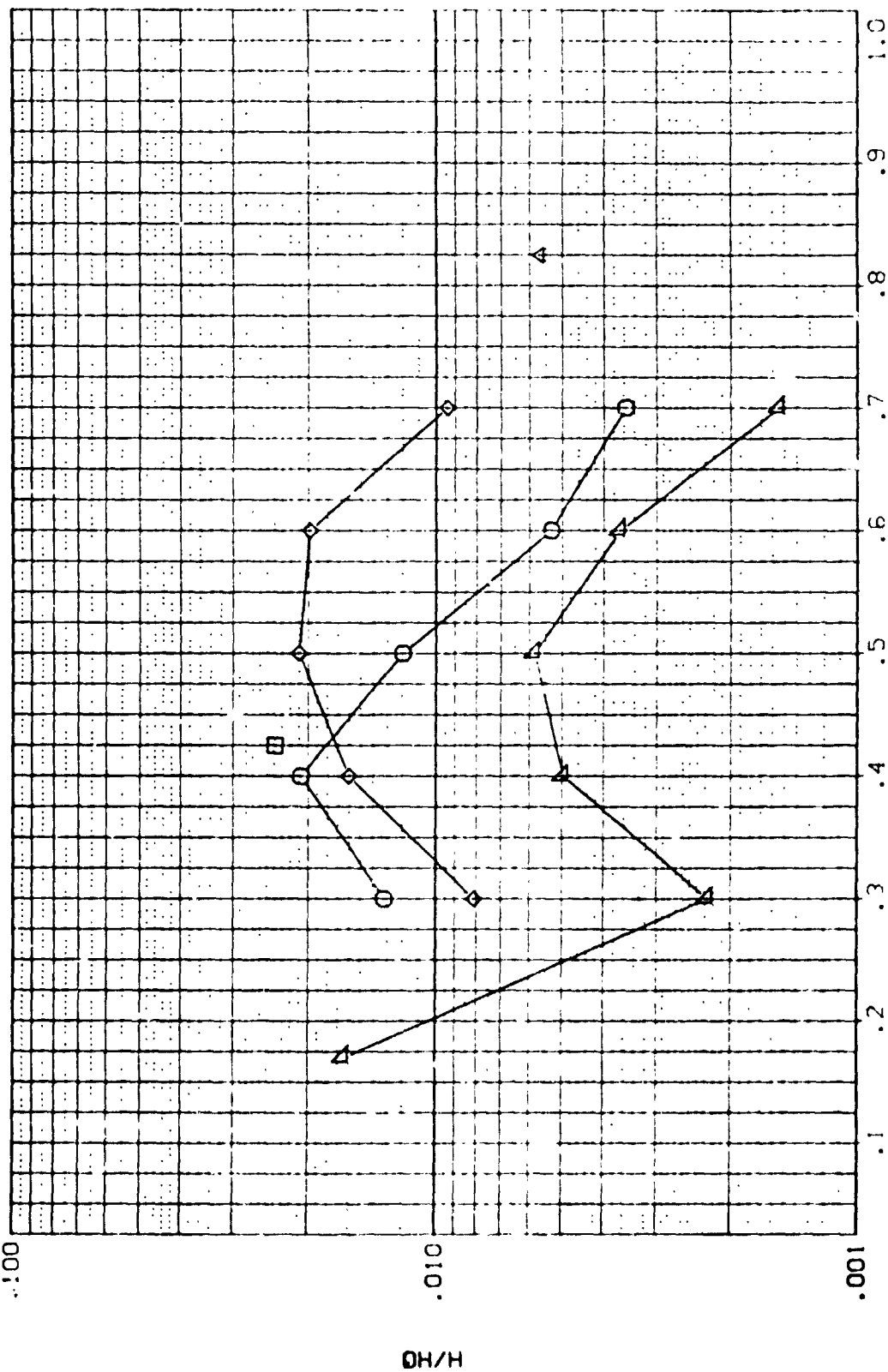
(R0LS03) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYNOPSIS
V.P.
375.000
402.000
425.000
465.000
501.000

HAW/HT
.900 6.000

ALPHA
MACH

PARAMETRIC VALUES
25.000 BETA
8.000 .000



LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE UPPER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

[RCLS03] CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

S.W.901

W.P.

375.000

400.000

425.000

465.000

501.000

.100

MAW/MT

.850

8.000

8.000

8.000

8.000

8.000

PARAMETRIC VALUES

25.000

BETA

8.000

8.000

8.000

8.000

ALPHA

MACH

8.000

8.000

8.000

8.000

8.000

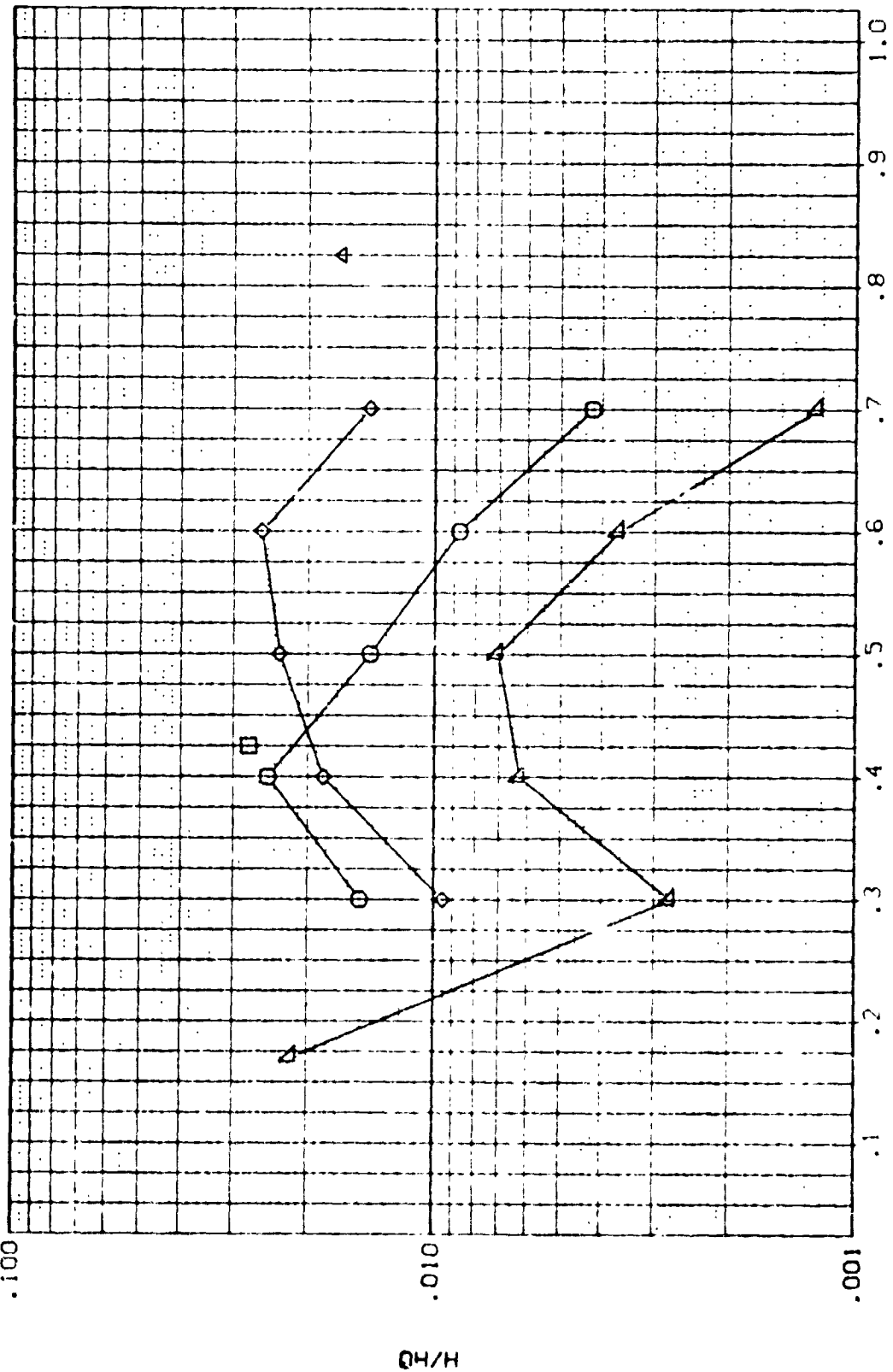


FIG 9 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
FUSELAGE UPPER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLS03) OH14 B22C7F5M4V7W1111 FUSELAGE UPPER SURFACE

SYMBOL
W.P.
375.000
400.000
425.000
465.000
501.000

MAV/MT
.900
8.000

ALPHA
MACH

PARAMETRIC VALUES
25.000 BETA
8.000 .000

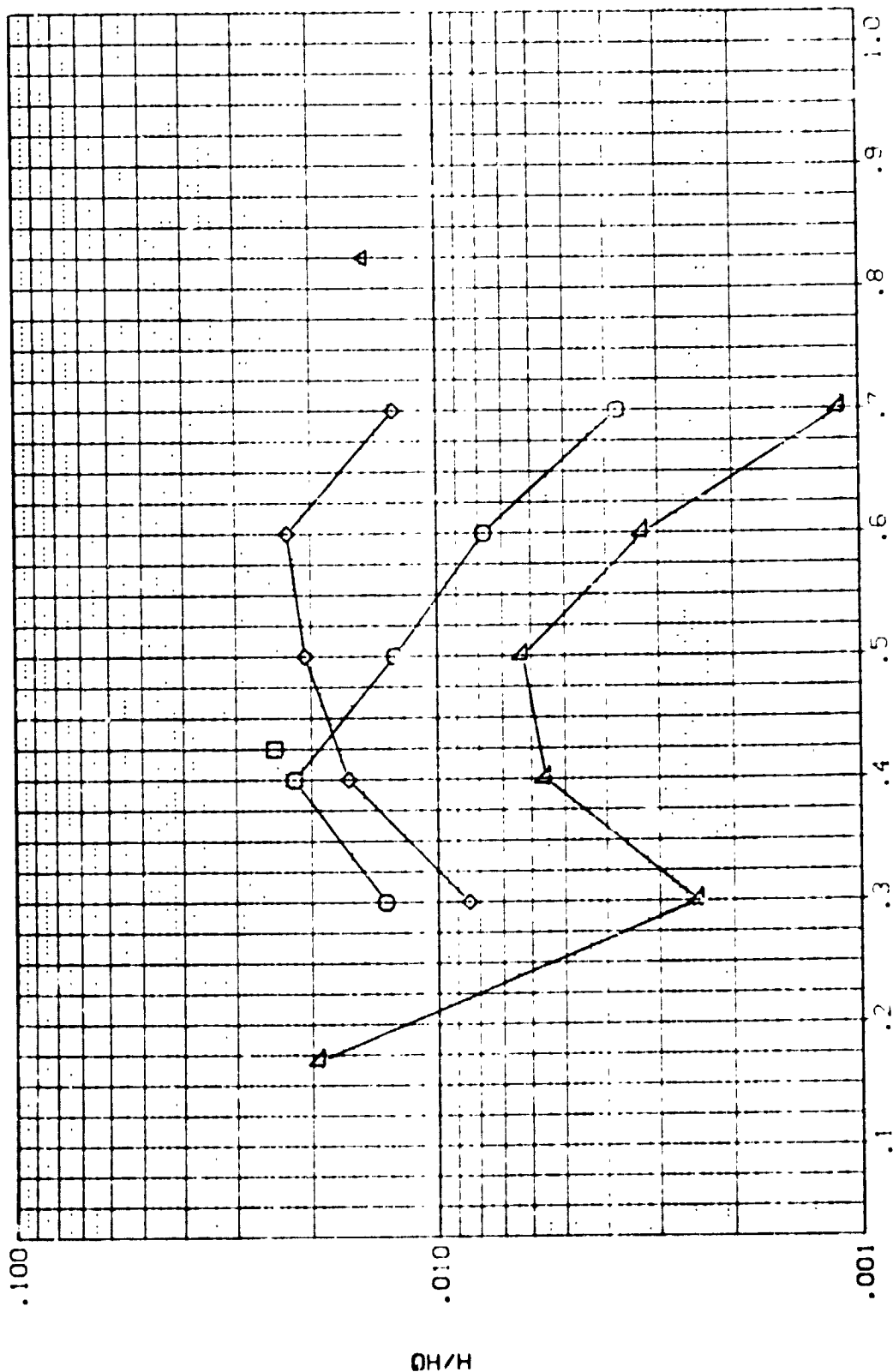


FIG 9 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BOG LENGTH
FUSELAGE UPPER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLS03) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 25.000 BETA
 8.000

ALPHA
 MACH

WAVE/MT 850
 RN/L 10.000

SYMBOL
 V.P.
 375.000
 400.000
 425.000
 465.000
 501.000

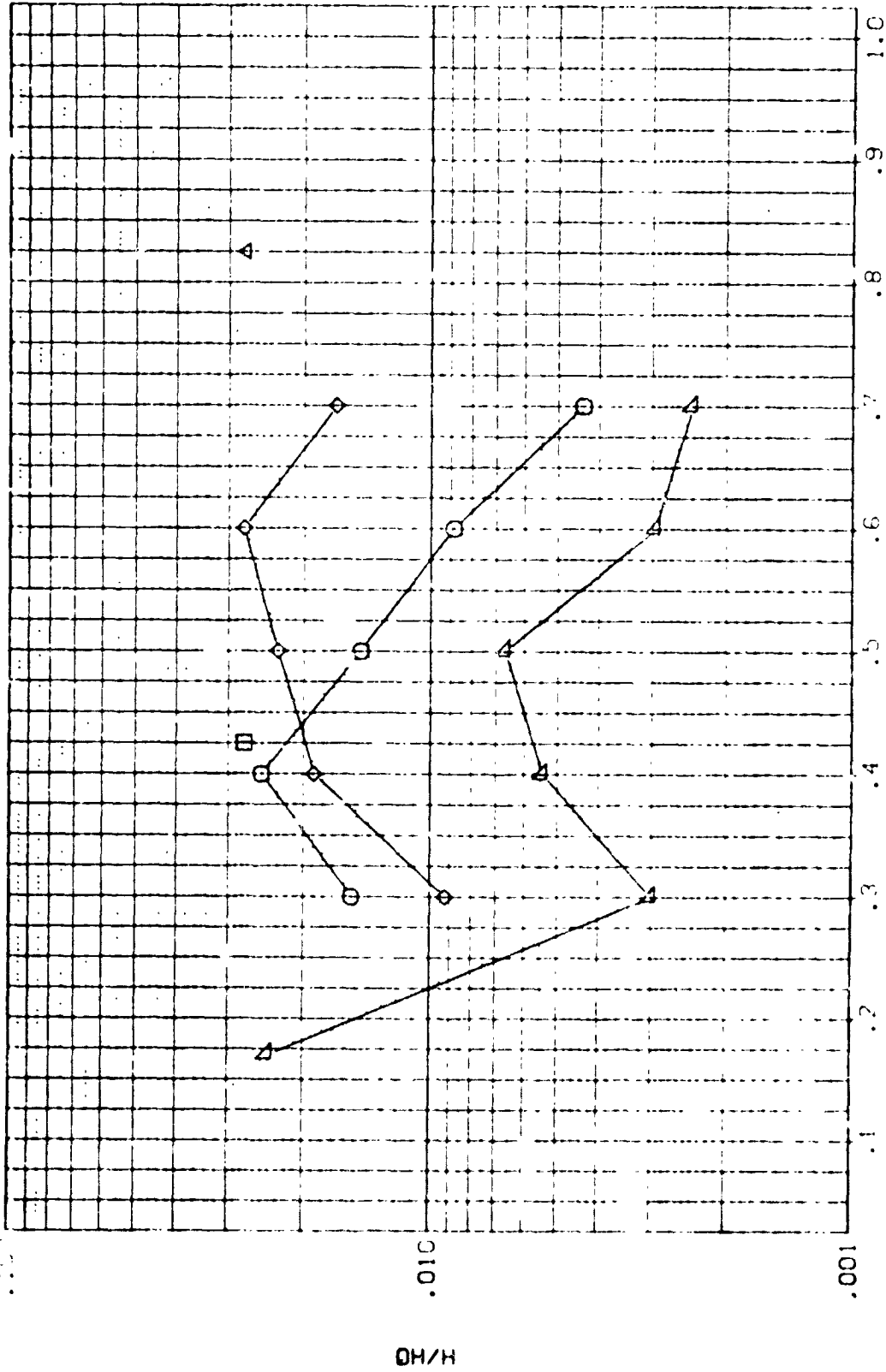


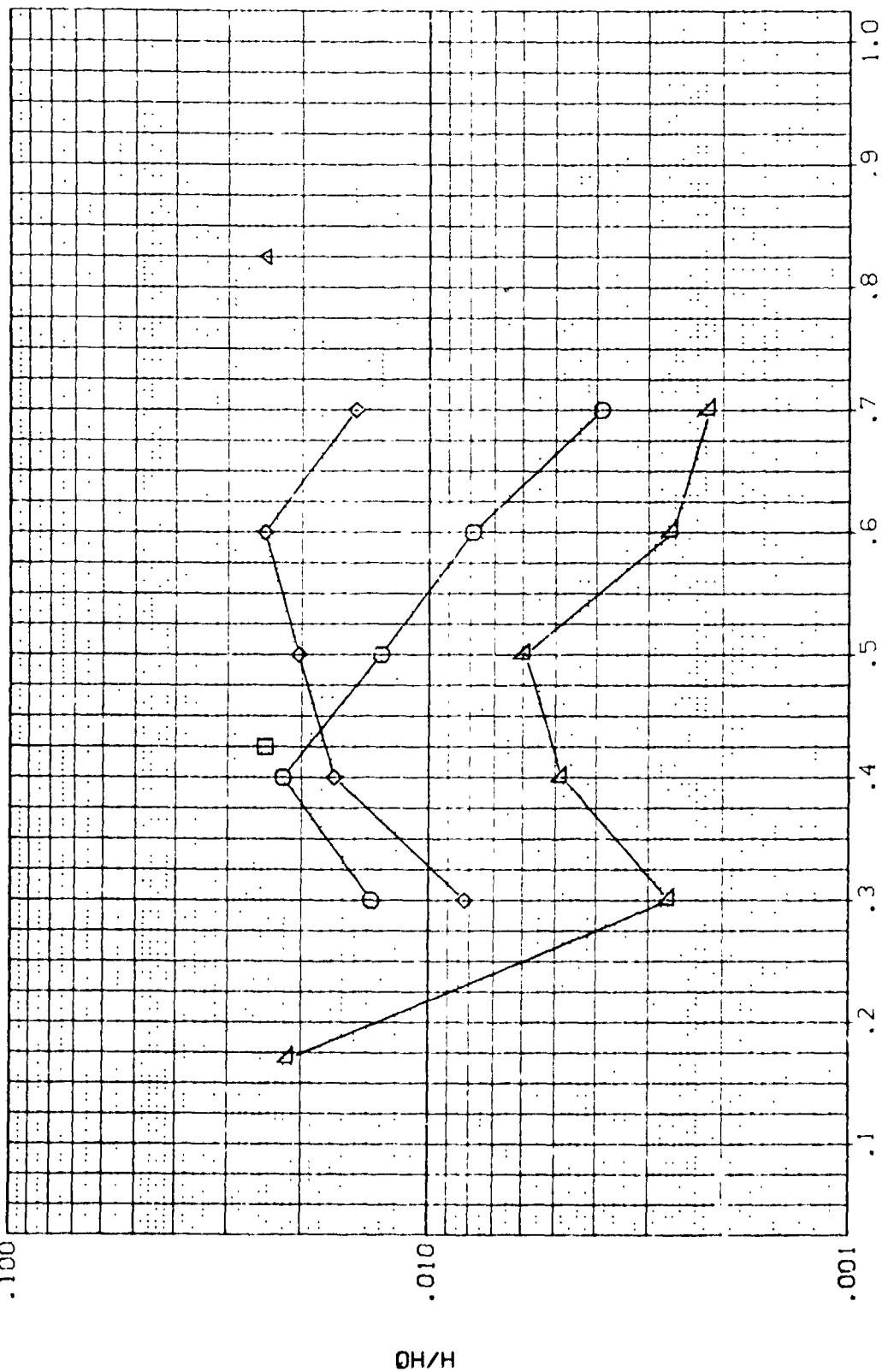
FIG 9 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(RQLS03) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL V.P.
 375.000
 400.000
 425.000
 465.000
 501.000

HAW/HT RN/L
 .900 10.000

PARAMETRIC VALUES
 ALPHA 25.000
 MACH 8.000
 BETA .000



LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH

FIG 9 FUSELAGE UPPER SURFACE DISTRIBUTION AT 25 DEG. ANGLE OF ATTACK

(R0LD04) 0H14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE

| | | | | | |
|--------|---------|--------|-------|-------|-------------------|
| SYMBOL | B.P. | MAW/HT | RN/L | ALPHA | PARAMETRIC VALUES |
| □ | 117.000 | .850 | 1.000 | MACH | 30.000 BETA |
| | | | | | 8.000 .000 |

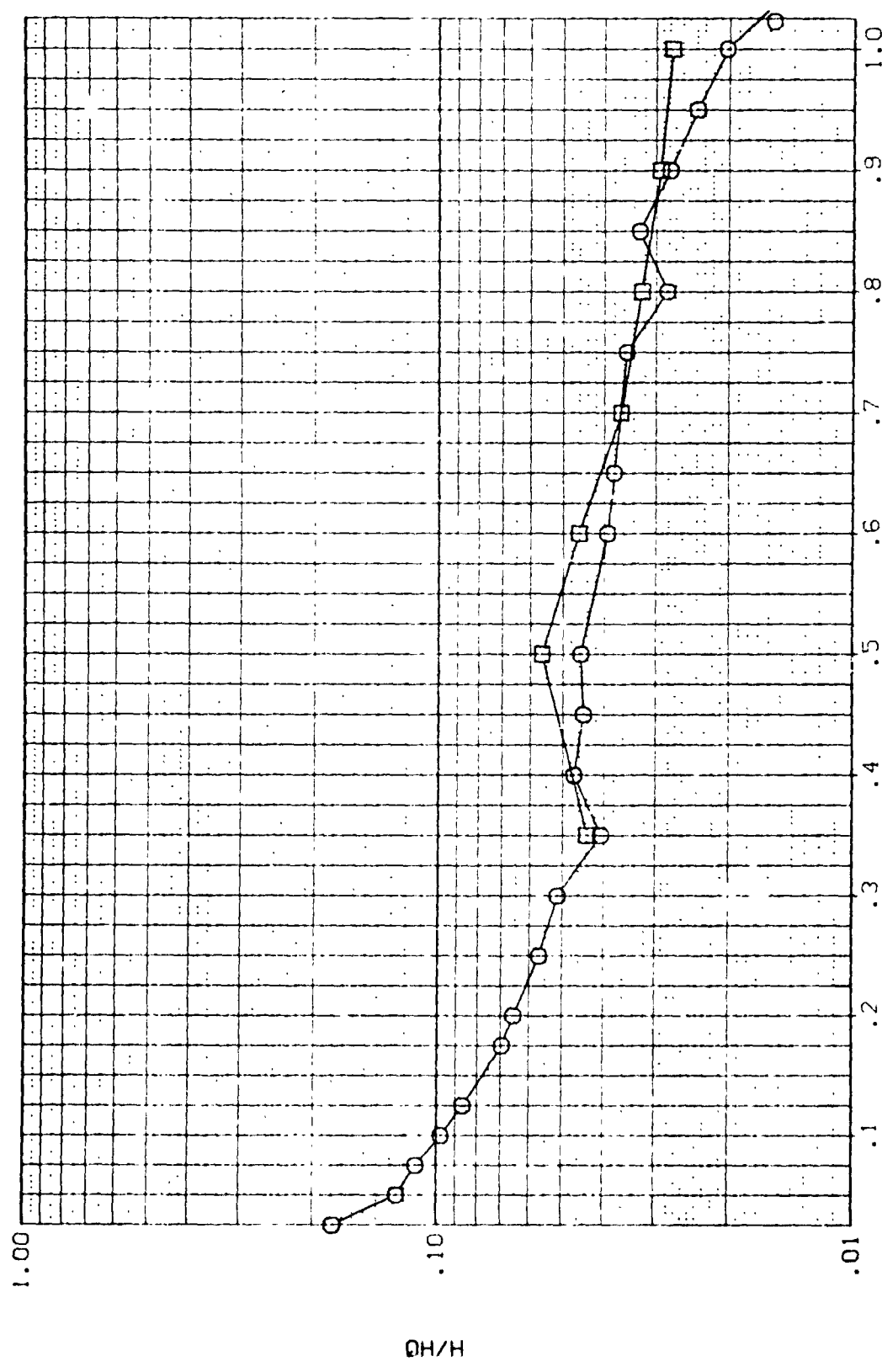
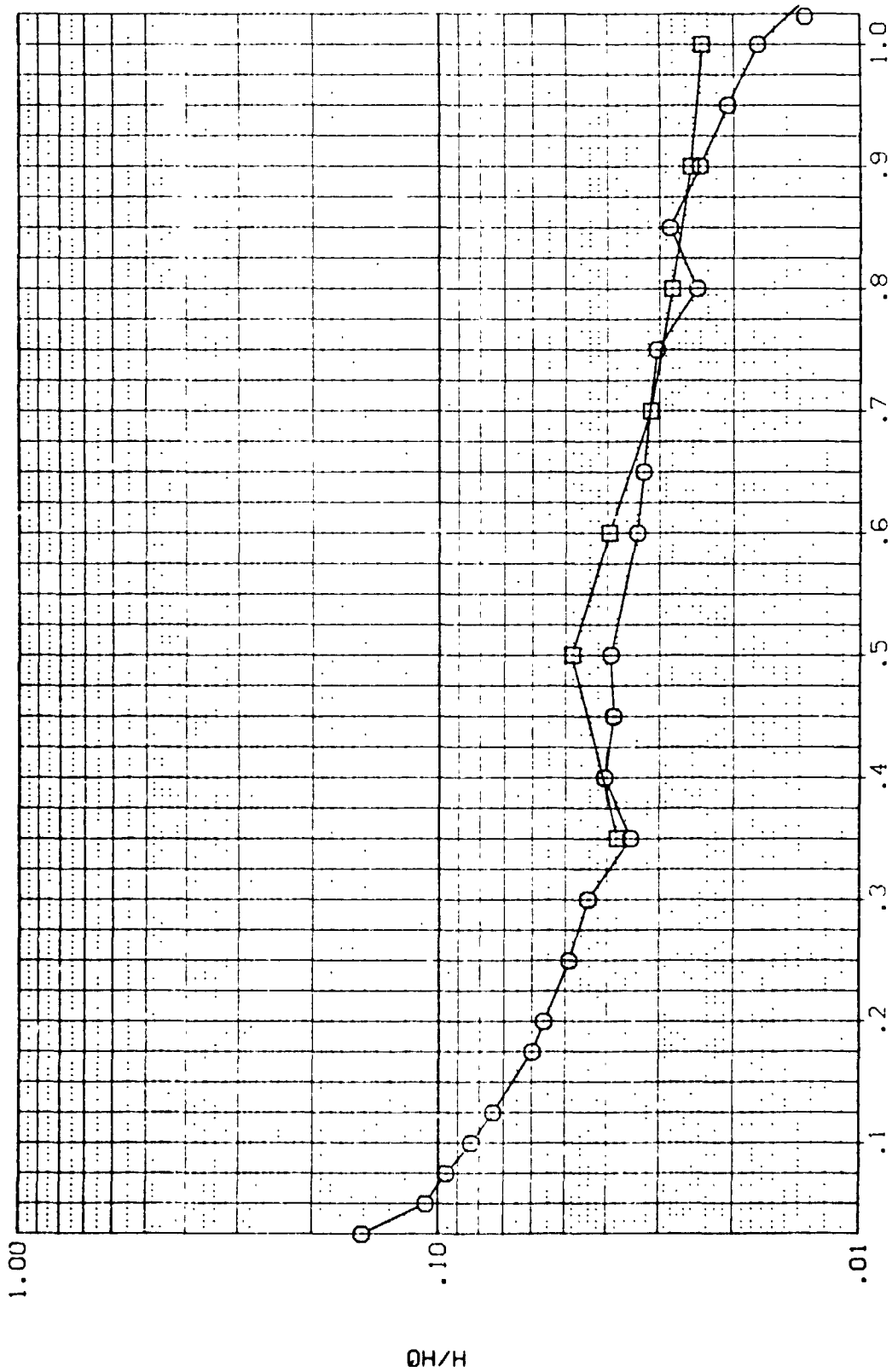


FIG 10 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLB04) 0H14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. 117.000
 HAW/HT 0.900
 RV/L 1.000
 ALPHA MACH
 PARAMETRIC VALUES
 30.000 BETA
 8.000 .000



LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLB04) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. 117.000

NAV/HT .850

RN/L 3.000

ALPHA MACH

PARAMETRIC VALUES
30.000 BETA .000
8.000

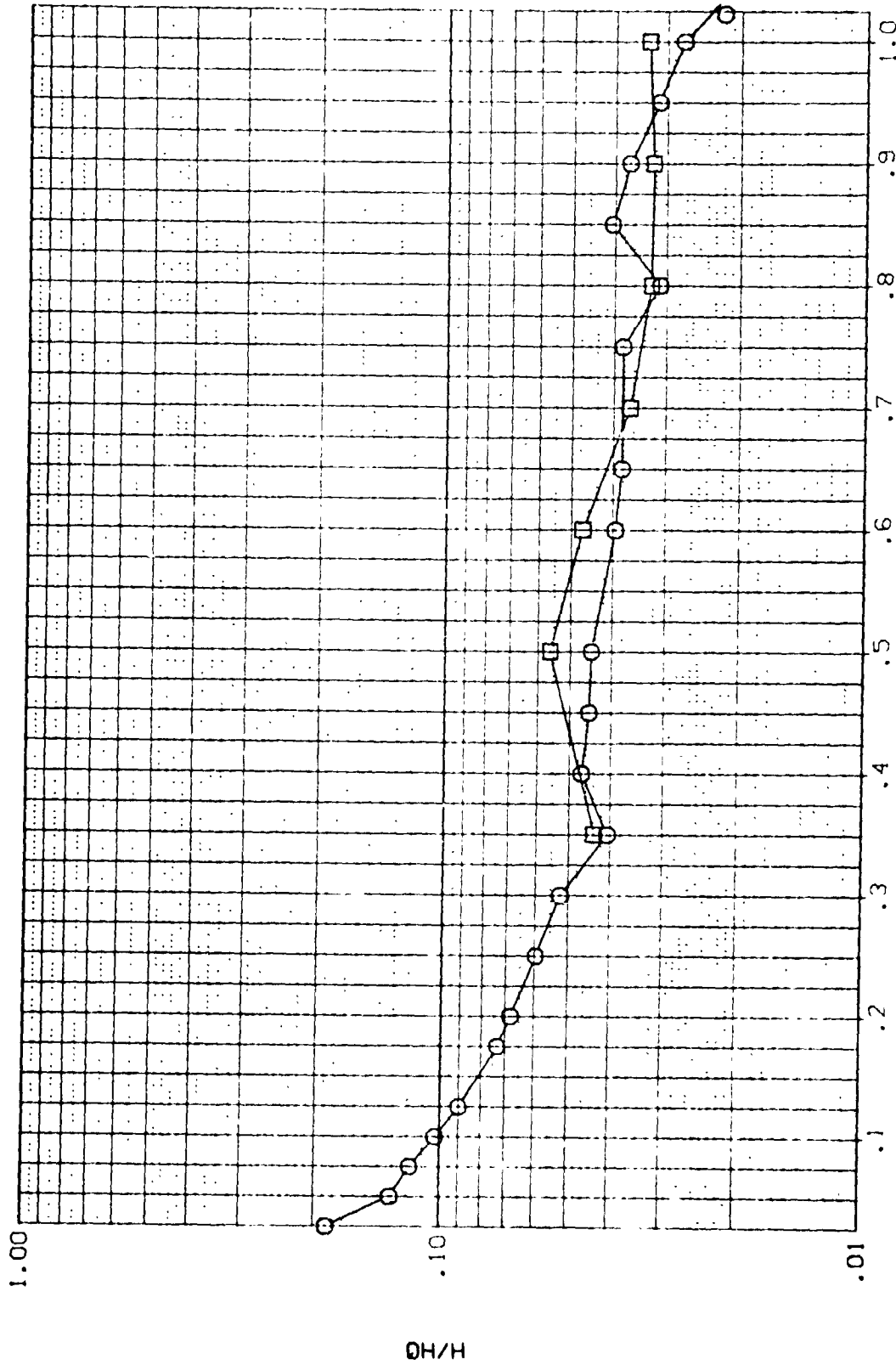


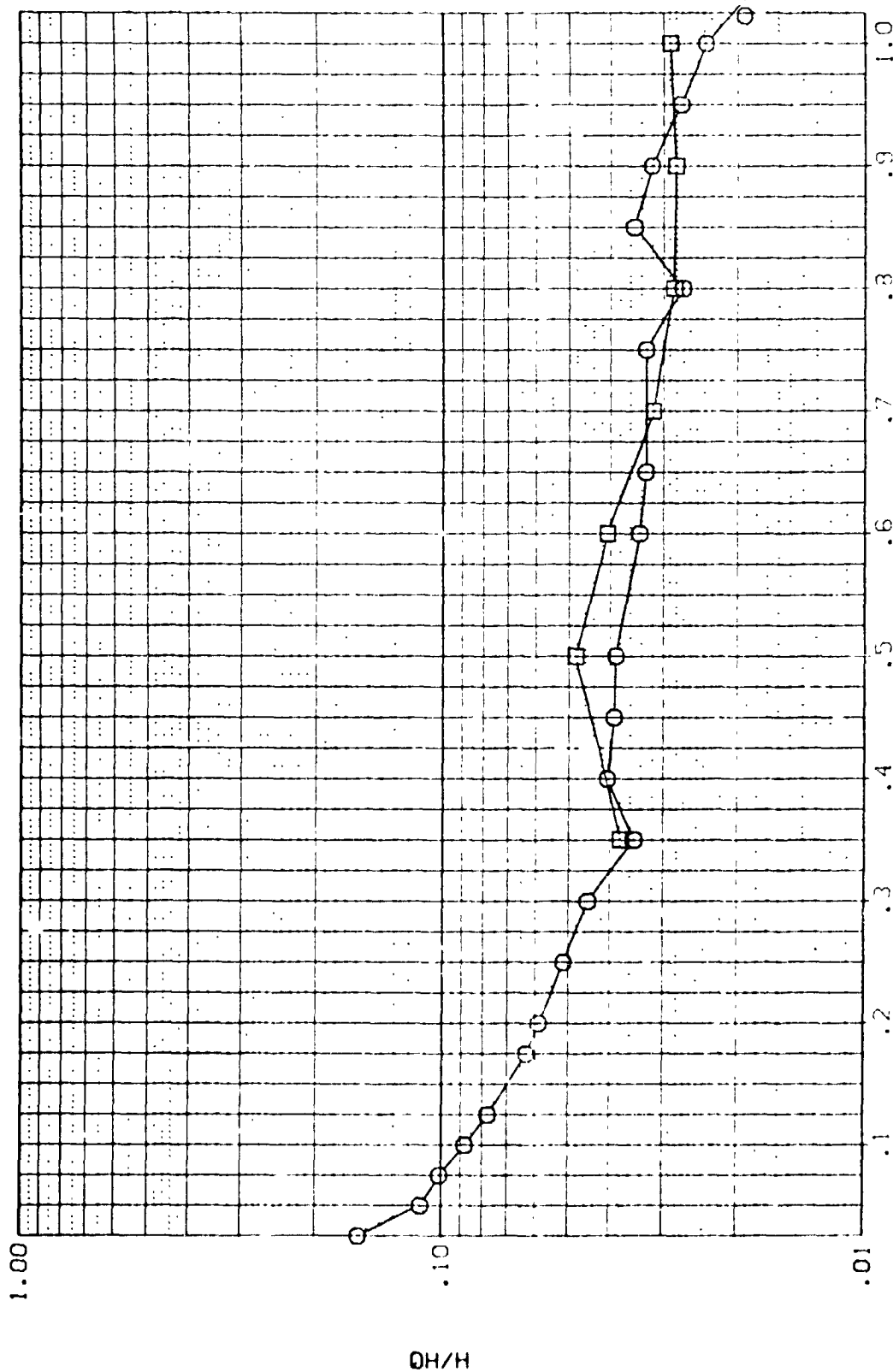
FIG 10 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLB04) 0H14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P.
117.000

MACH/MT .900
RN/L 3.000

PARAMETRIC VALUES
ALPHA MACH
30.000 8.000
BETA .000

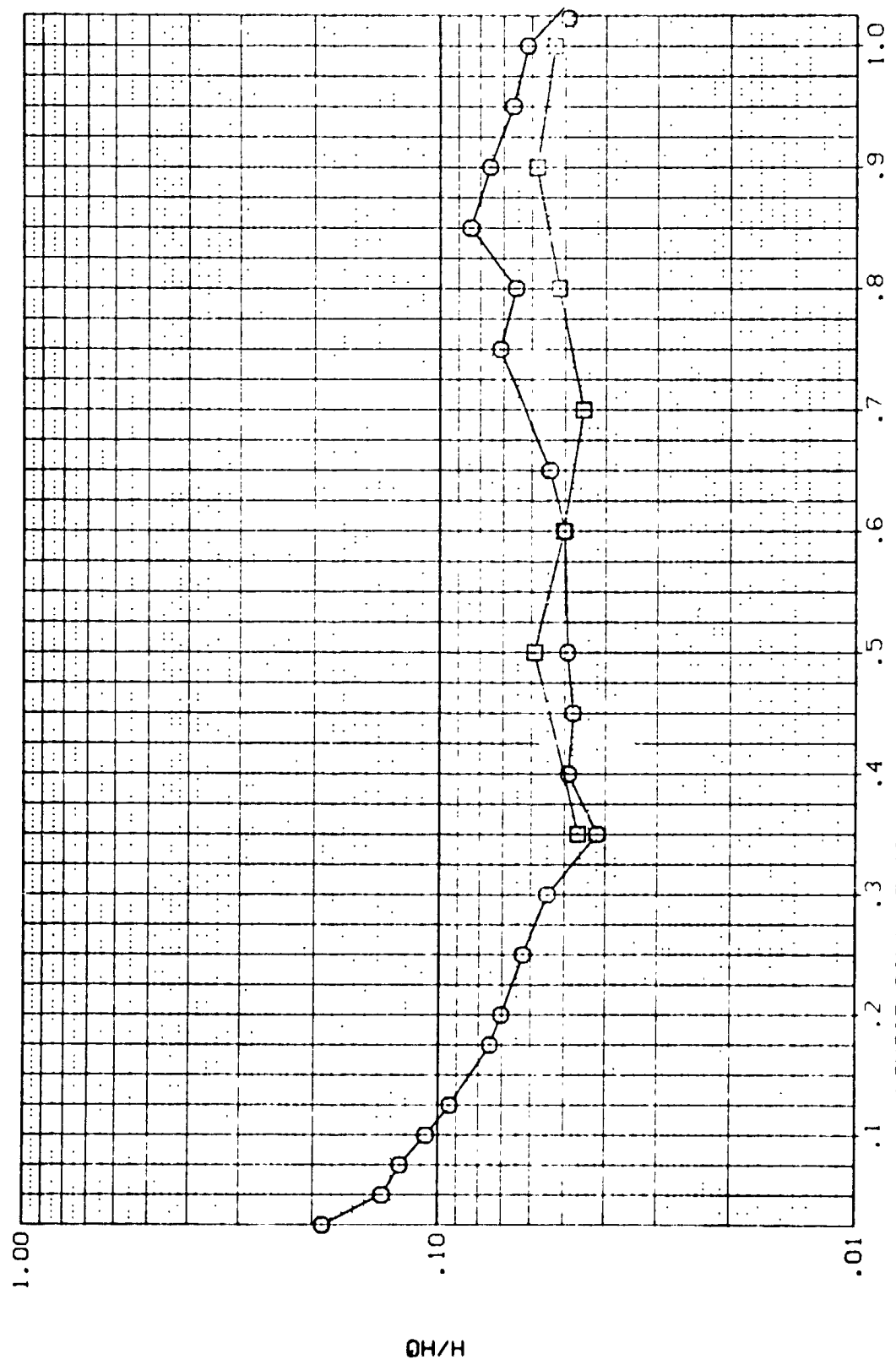


LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLB04) OH14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. 117.000
 HAN/WT .850
 RN/L 4.000

PARAMETRIC VALUES
 ALPHA MACH 30.000
 BETA 8.000
 .000



LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH

FIG 10 FUSELAGE LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLB04) CH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. 117,000

MAW/HT .900

RN/L 4.000

ALPHA MACH

PARAMETRIC VALUES
30.000 BETA .000
8.000

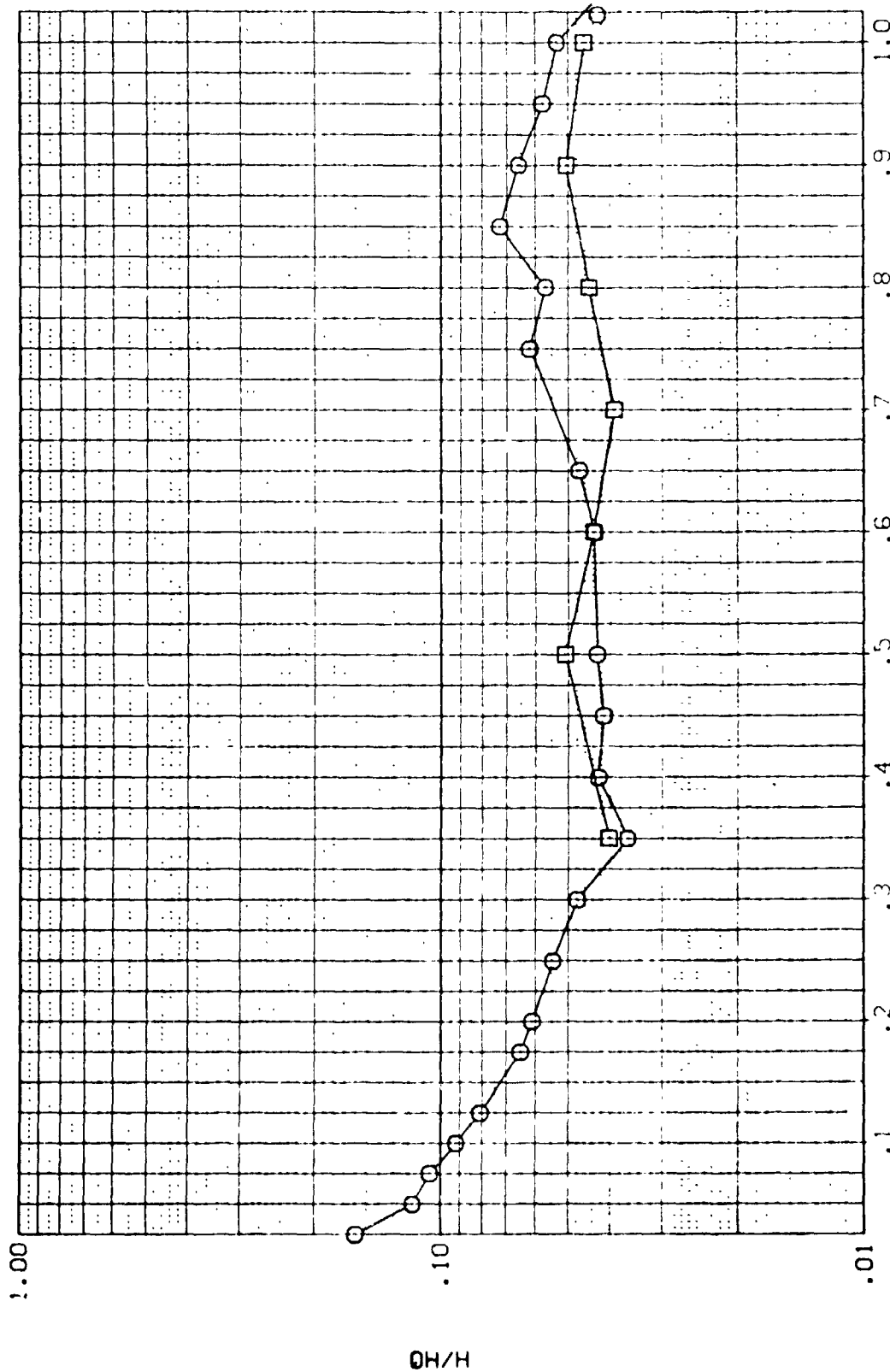



FIG 10 LONGITUDINAL FUSELAGE STATION. X/L, FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(R0LB04) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P.
 .000
 '17.000

HAW/HT .850
 RN/L 4.500

PARAMETRIC VALUES
 ALPHA MACH .000
 BETA 30.000
 8.000

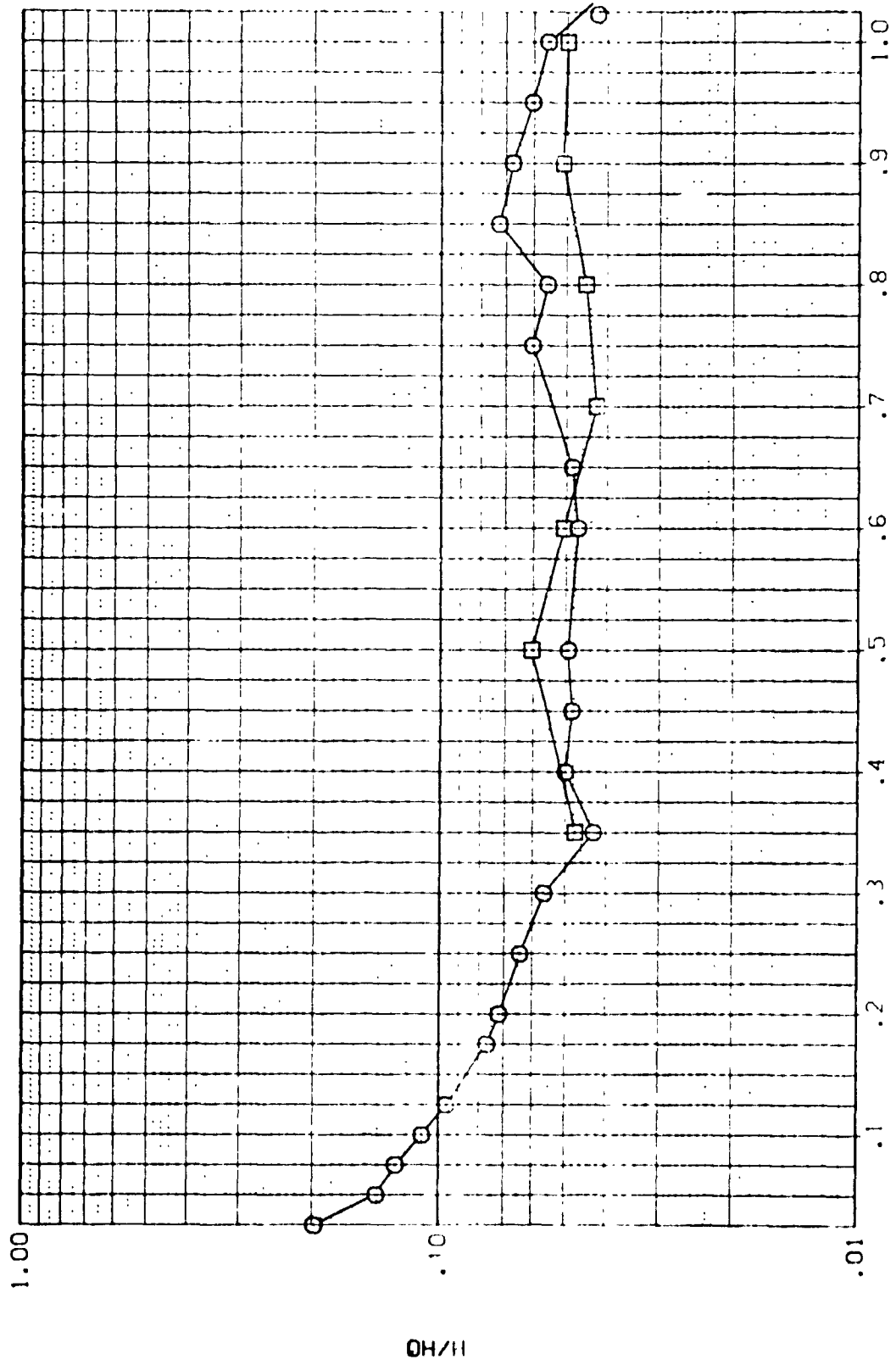


FIG 10 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
 FUSELAGE LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RGLB04) OH14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. 117.000

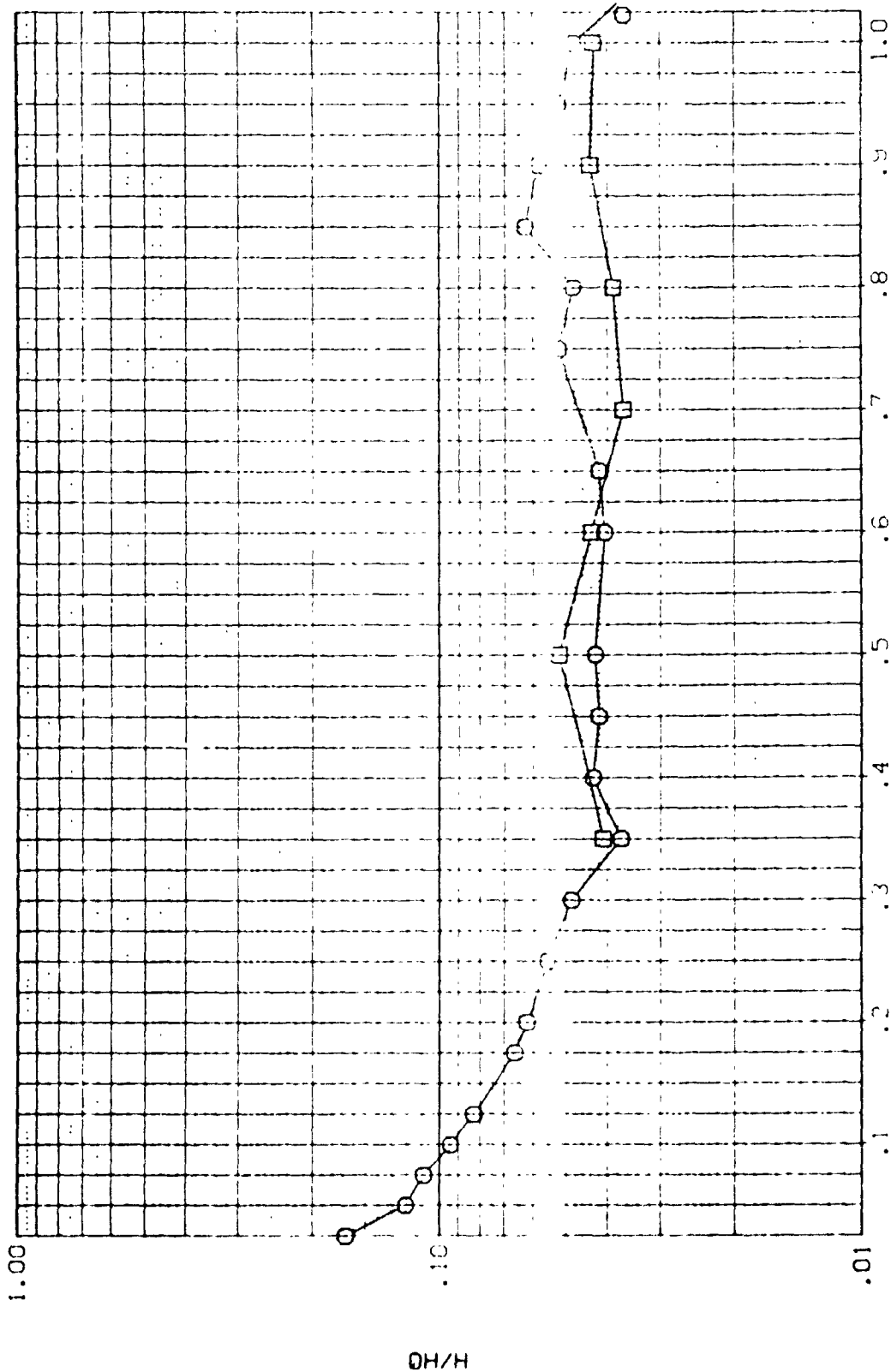
MAN/MT .900

RN/L 4.500

ALPHA MACH

PARAMETRIC VALUES
30.000 BETA
8.000

.000



LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLB04) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. 117.000

MAR/NT .850 RN/L 5.000

PARAMETRIC VALUES
ALPHA MACH 30.000 BETA .000

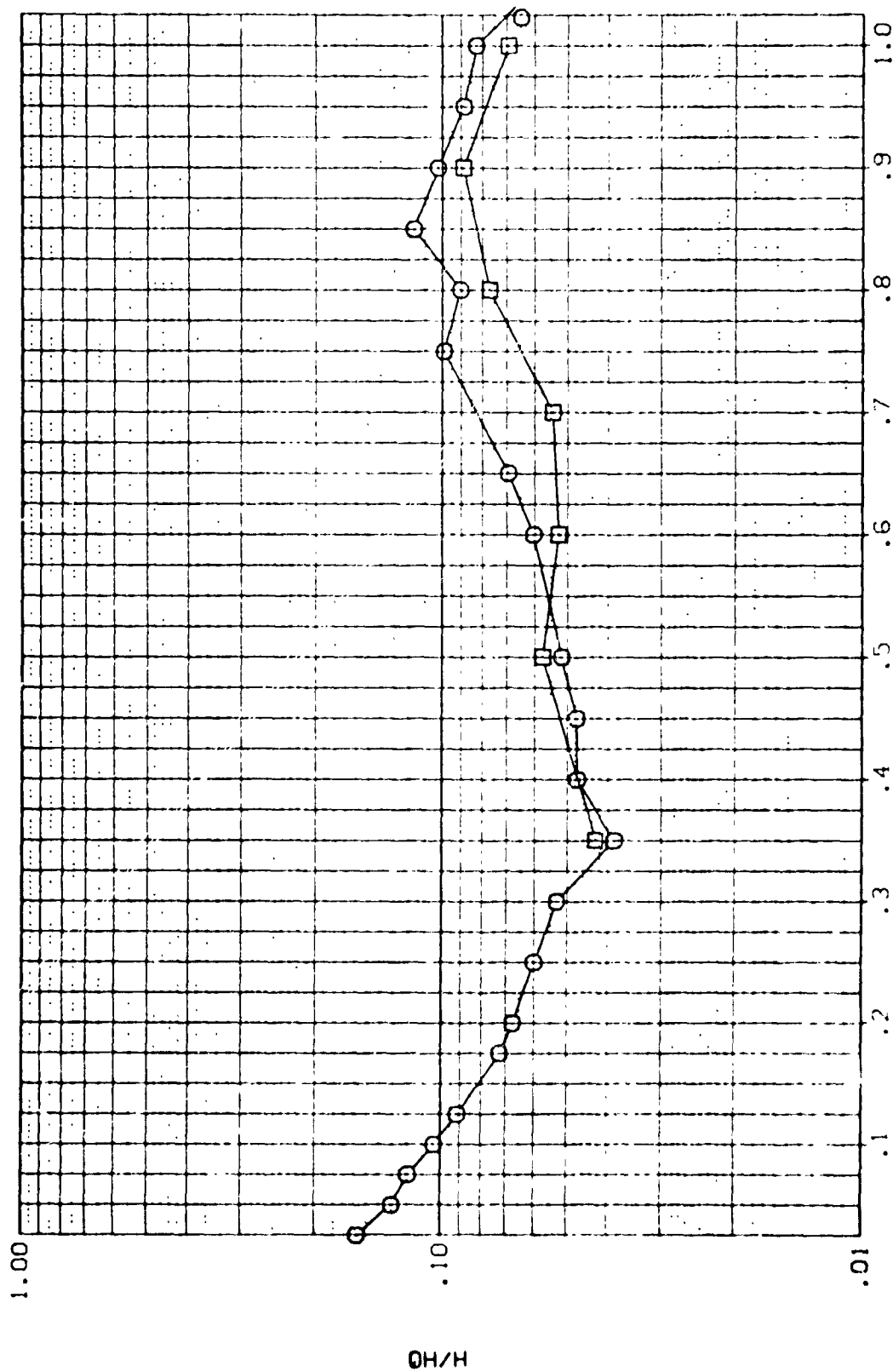
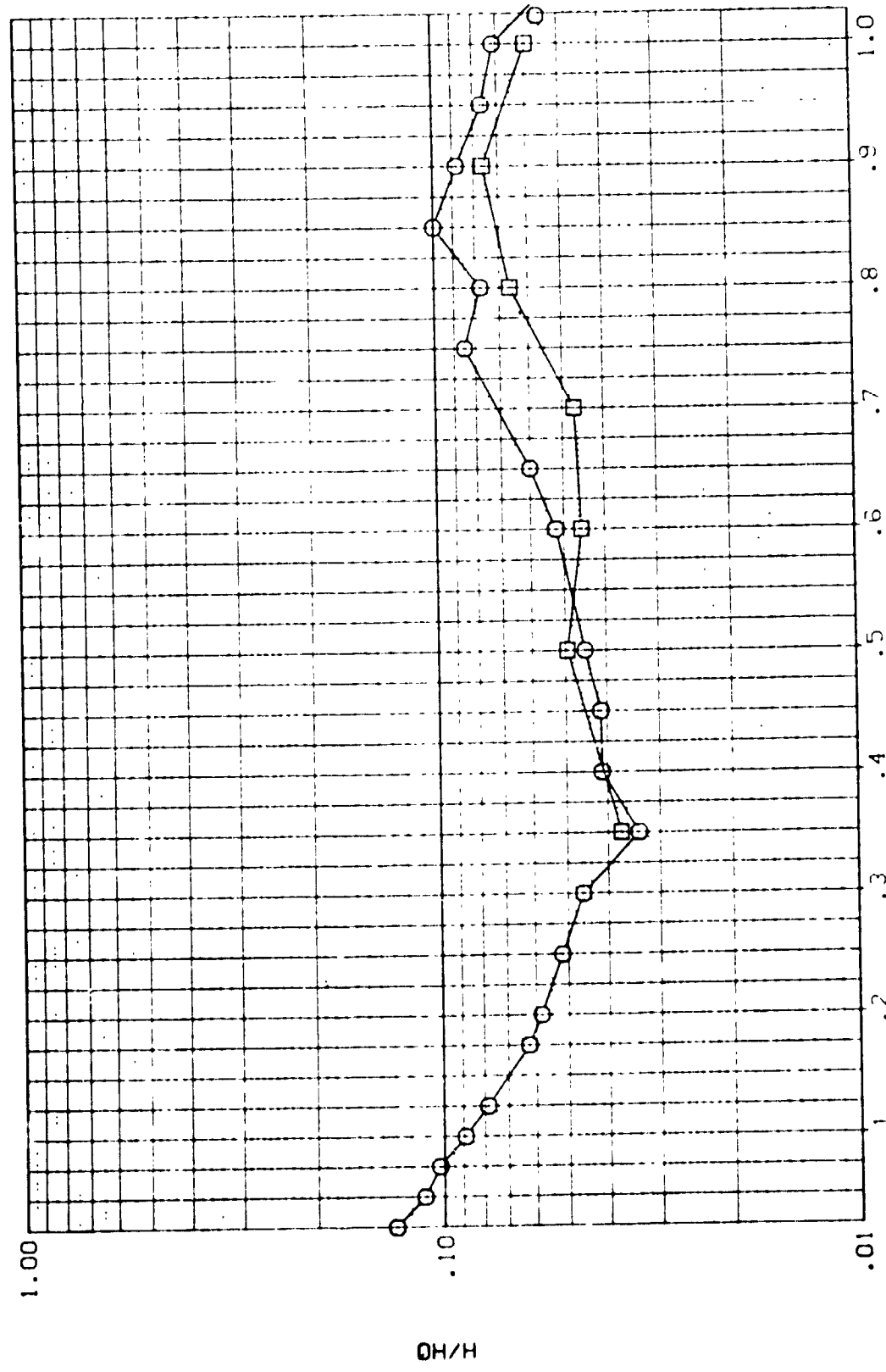


FIG 10 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLB04) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

| | | | | | |
|--------|---------|--------|-------|-------|-------------------|
| SYMBOL | B.P. | MAV/MT | RV/L | ALPHA | PARAMETRIC VALUES |
| 8 | 117.000 | .900 | 5.000 | MACH | 30.000 BETA |
| | | | | | 8.000 .000 |



LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH

FUSELAGE LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

FIG 10

(RQLB04) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

| | | | | | |
|---------|------|--------|-------|-------|-------------------|
| SYMBOL | B.P. | MAV/MT | PN/L | ALPHA | PARAMETRIC VALUES |
| 117.000 | .000 | .850 | 5.500 | MACH | 30.000 |
| | | | | | BETA |
| | | | | | 8.000 |
| | | | | | .000 |

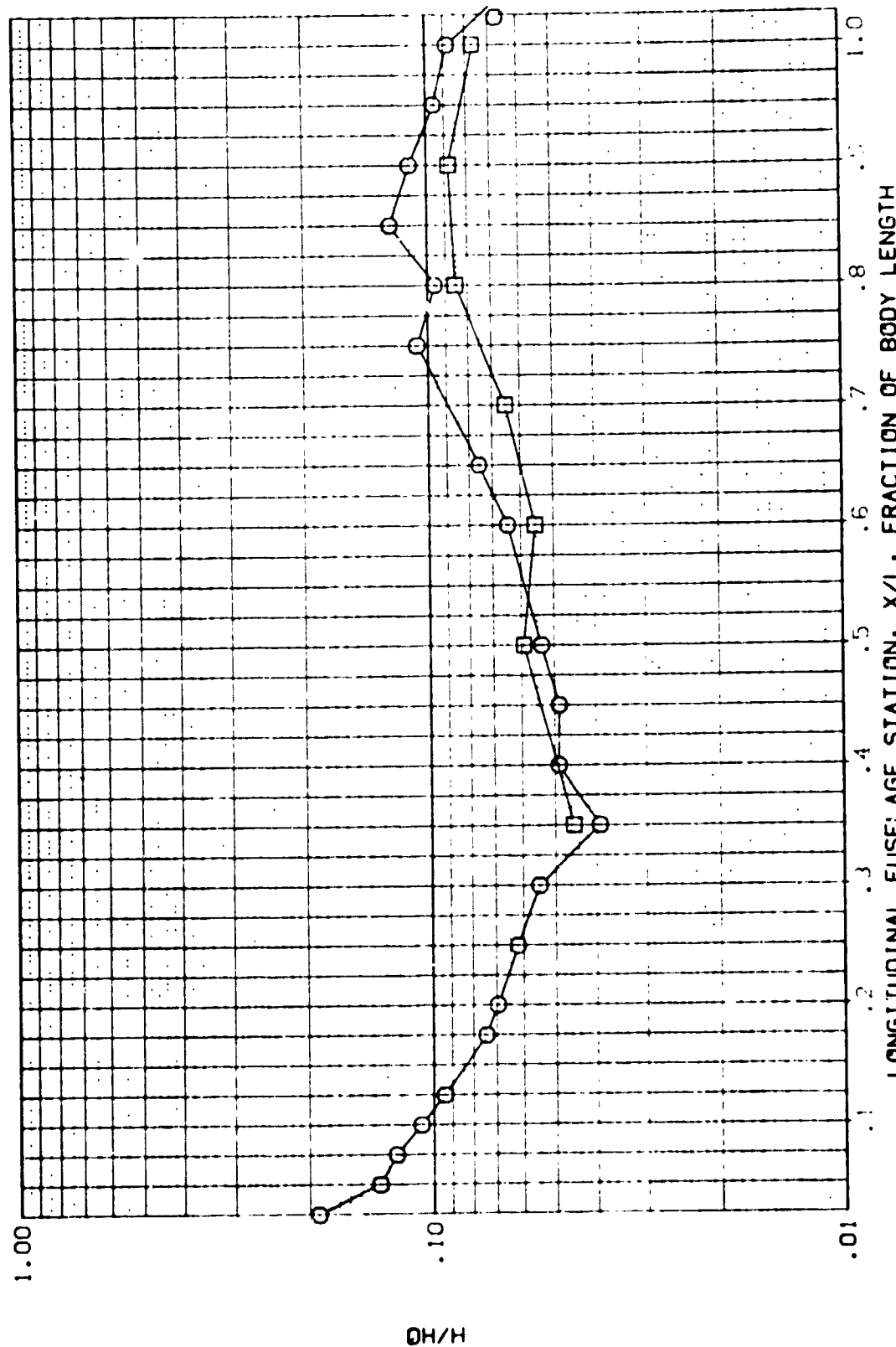


FIG 10 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RGLB04) OH14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE

PARAMETRIC VALUES
 30.000 BETA .000
 8.000
 ALPHA
 MACH

SYMBOL R.P. HAW/MY RN/L 5.500
 117.000 .900

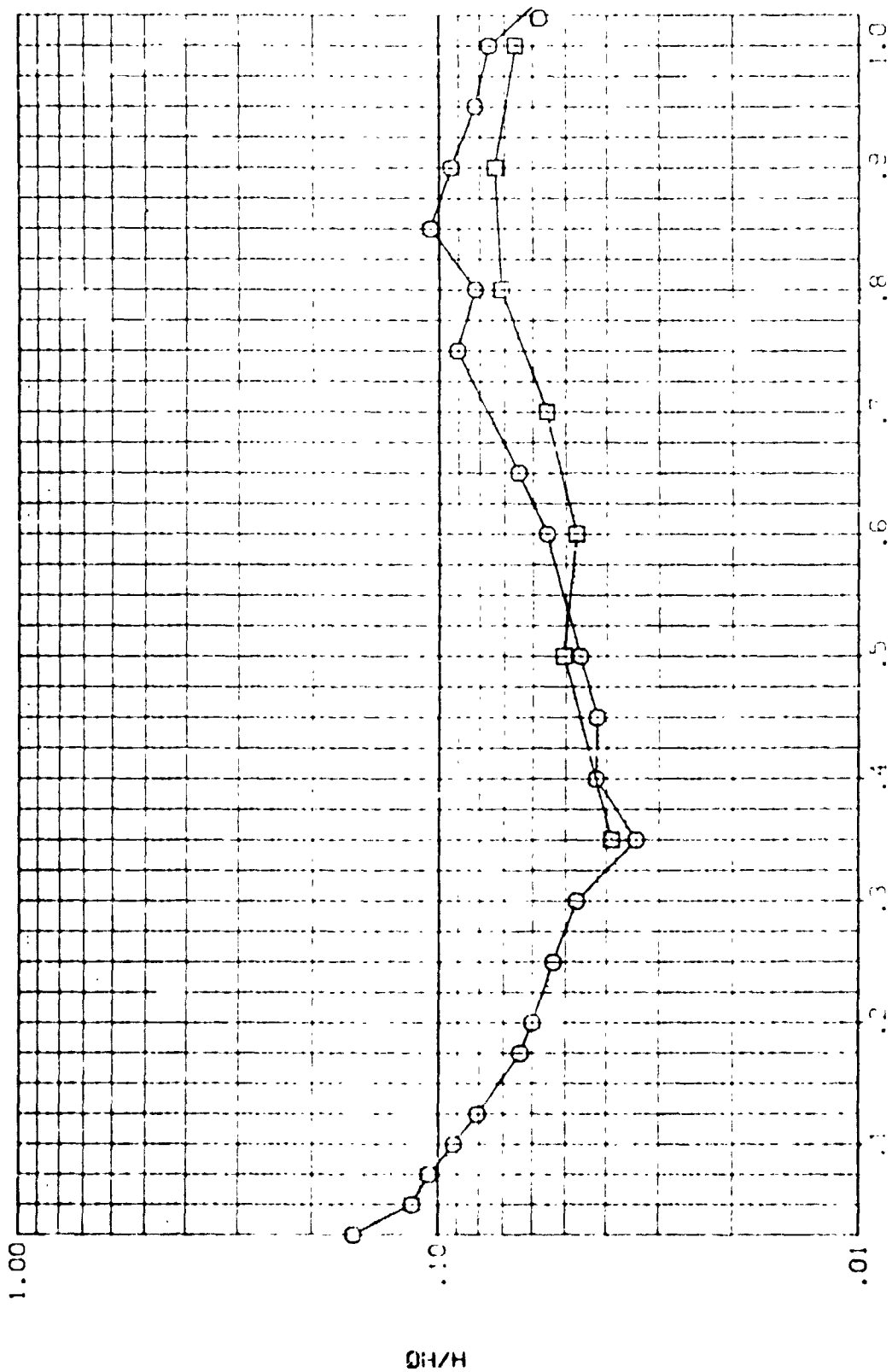


FIG 10 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLB04) 0H14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

| | | | | | | |
|--------|---------|--------|-------|-------|-------------------|------|
| SYMBOL | B.P. | MAV/HT | RN/L | ALPHA | PARAMETRIC VALUES | BETA |
| □ | 117.000 | .850 | 6.000 | MACH | 30.000 | .000 |

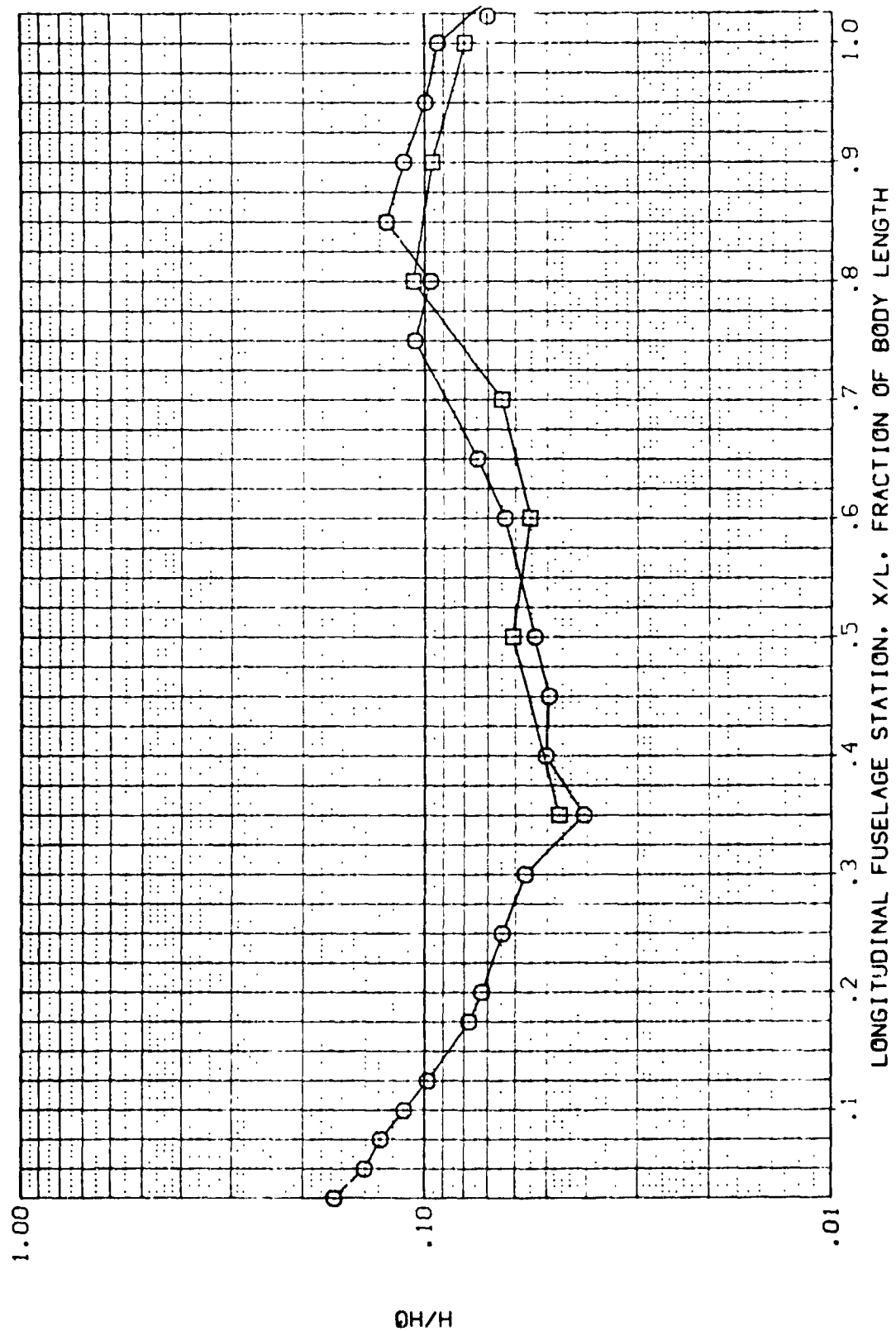


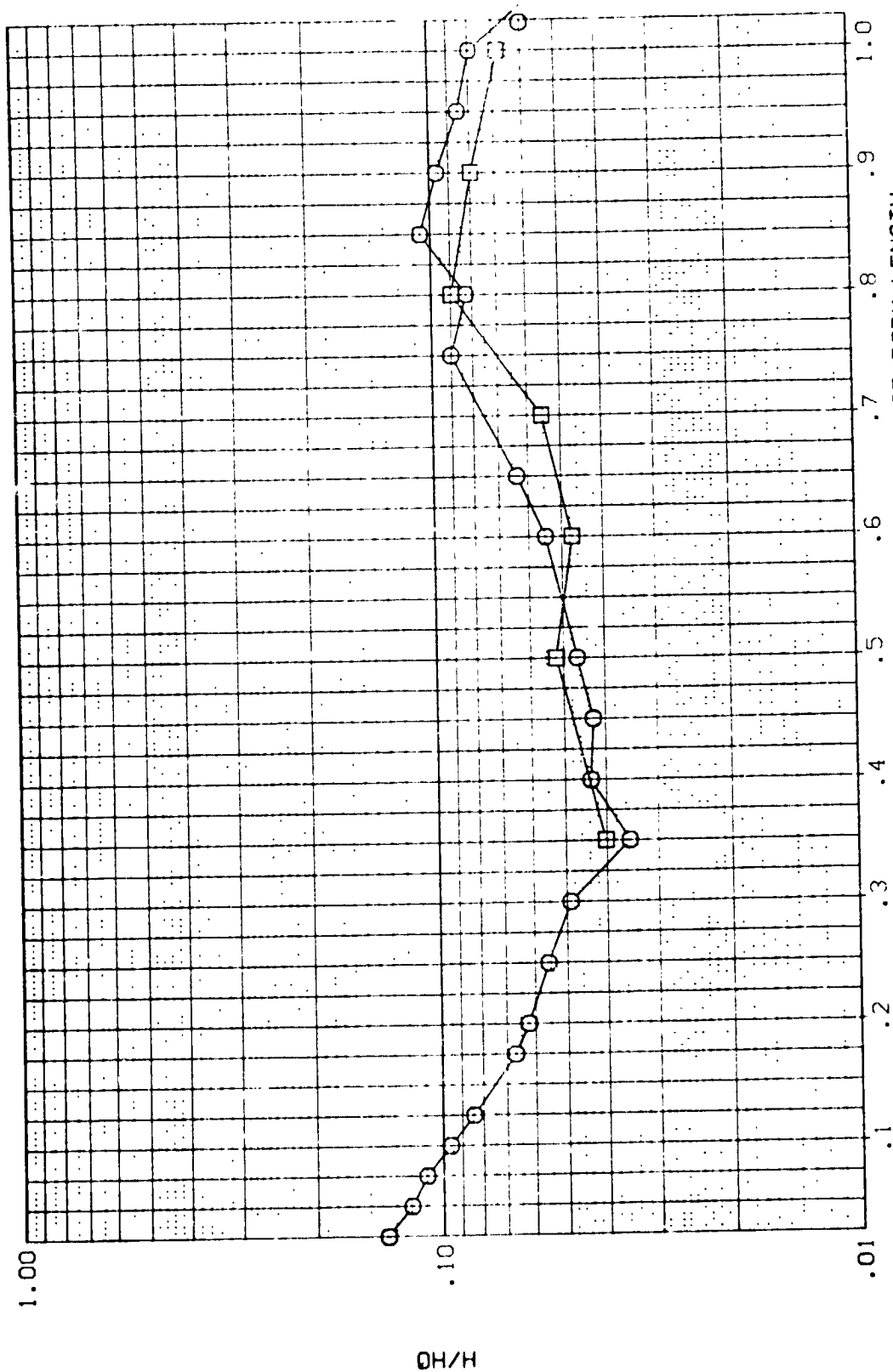
FIG 10 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLB04) 0H14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. .000
117.000

MAV/WT .900
RN/L 6.000

PARAMETRIC VALUES
ALPHA 30.000
MACH 8.000
BETA .000



LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

FIG 10

(RQLB04) 0H14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. 117.000

MAV/HT .850 RN/L 8.000

PARAMETRIC VALUES
ALPHA MACH 30.000 BETA .000

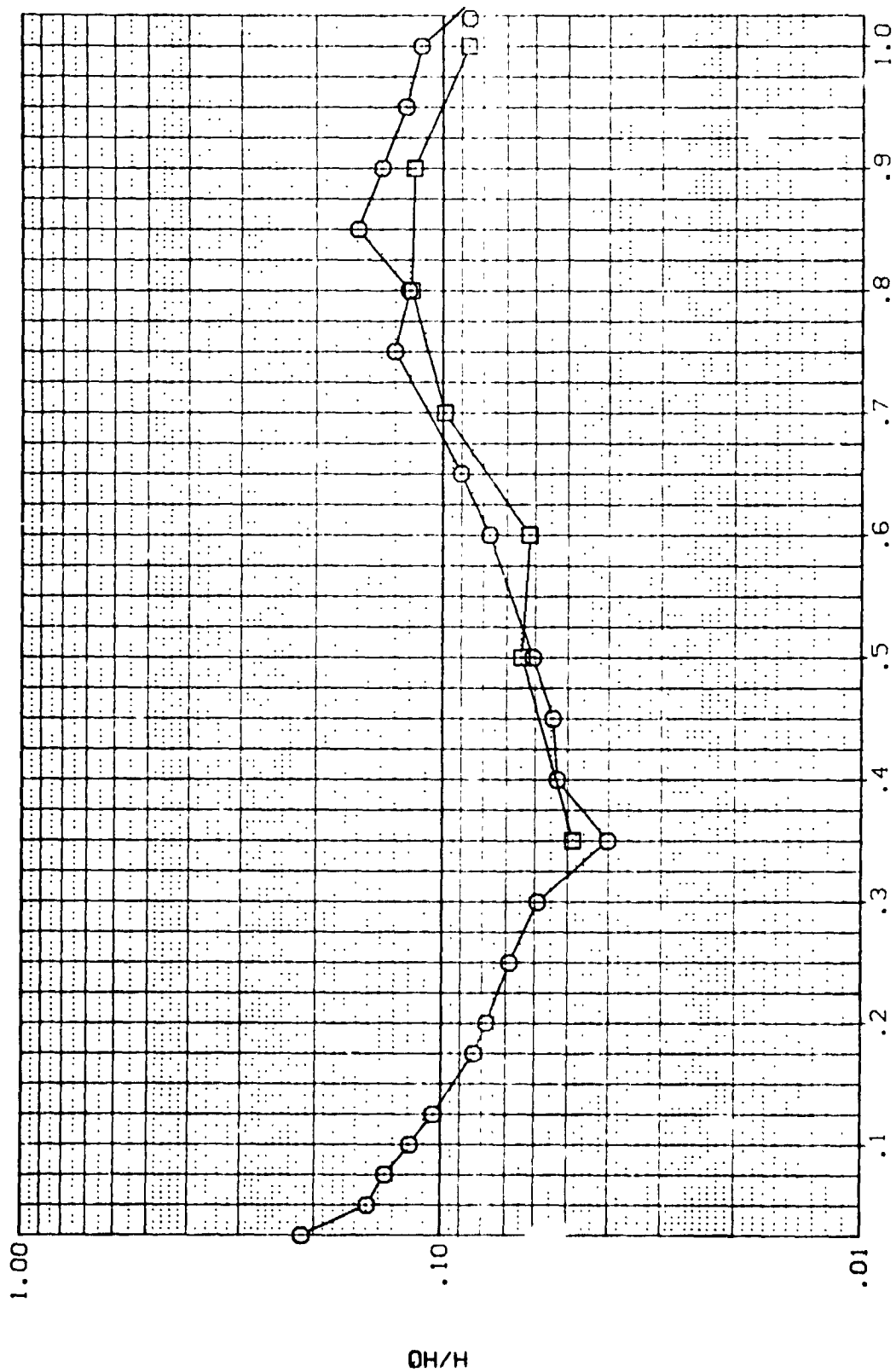


FIG 10 LONGITUDINAL FUSELAGE STATION, X/L , FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLB04) 0H14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SY-80L B.P. 117.000
 MAV/HT .900 RN/L 8.000
 ALPHA MACH 30.000 BETA .000

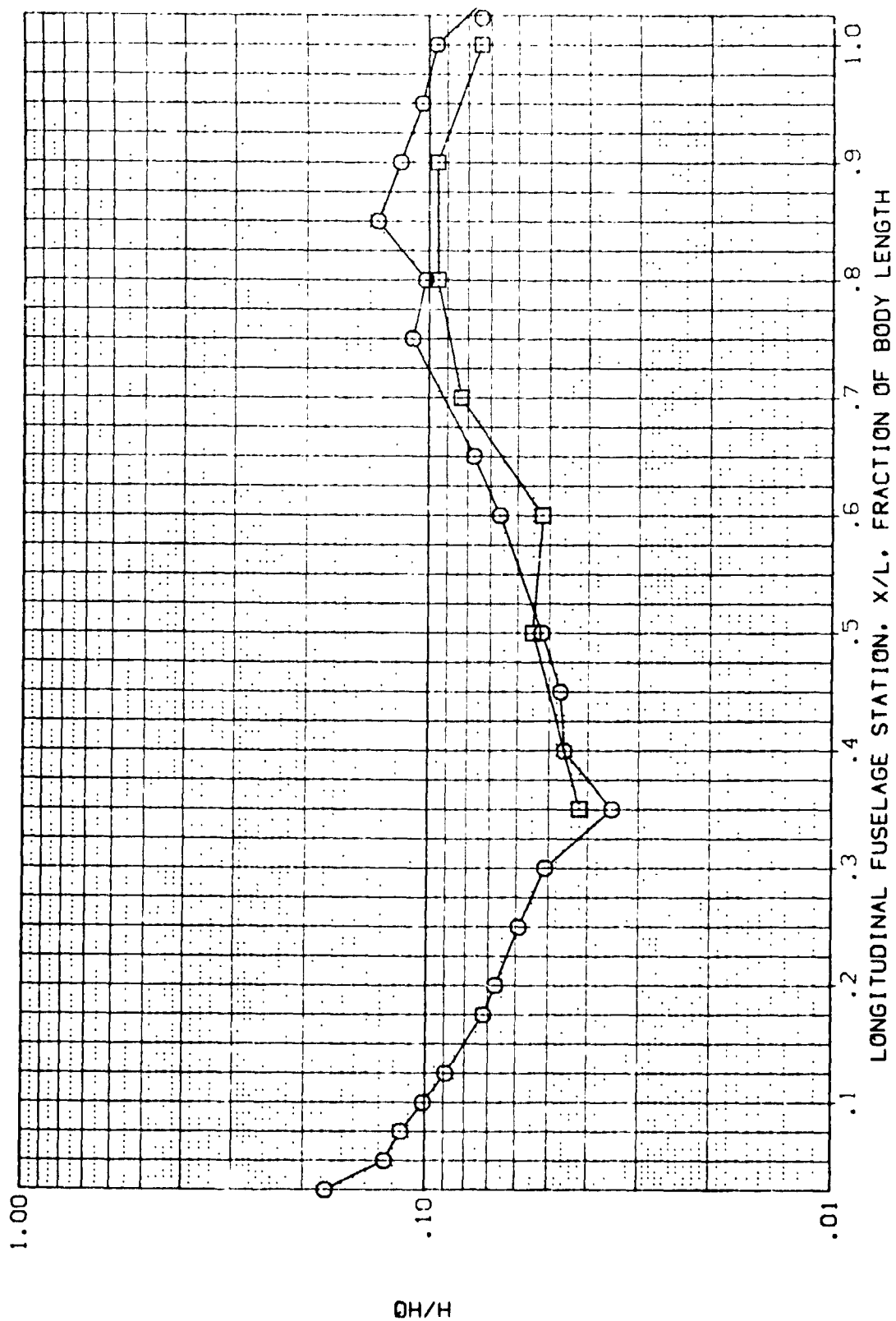


FIG 10 FUSELAGE LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLB04) 0H14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. 117.000

MAV/HT .850

RN/L 10.000

ALPHA
MACH

PARAMETRIC VALUES
30.000 BETA
8.000 .000

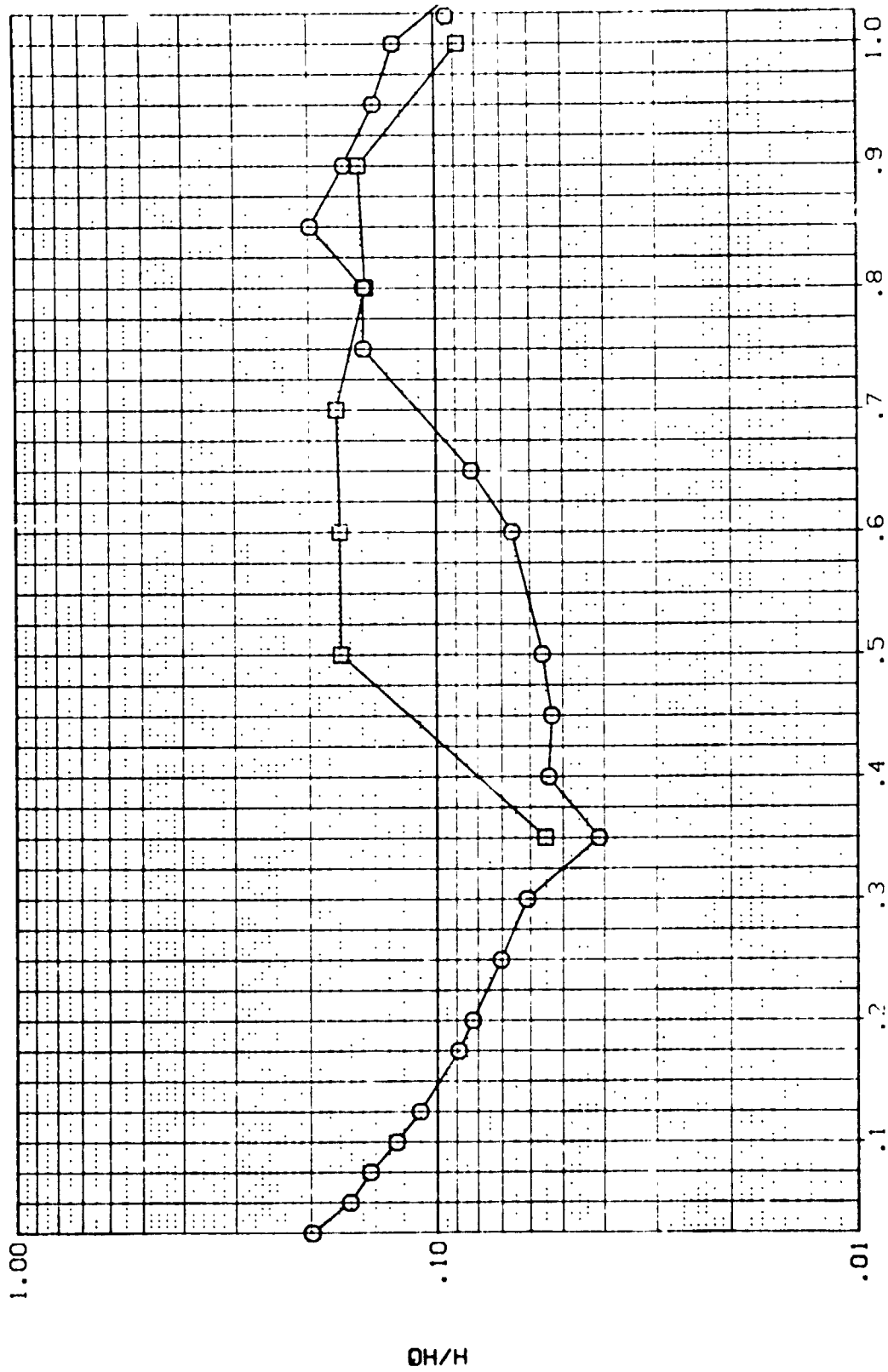


FIG 10 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLB04) 0H14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. 117.000

MAX/VT .900 RN/L 10.000

PARAMETRIC VALUES
ALPHA MACH 30.000 BETA .000

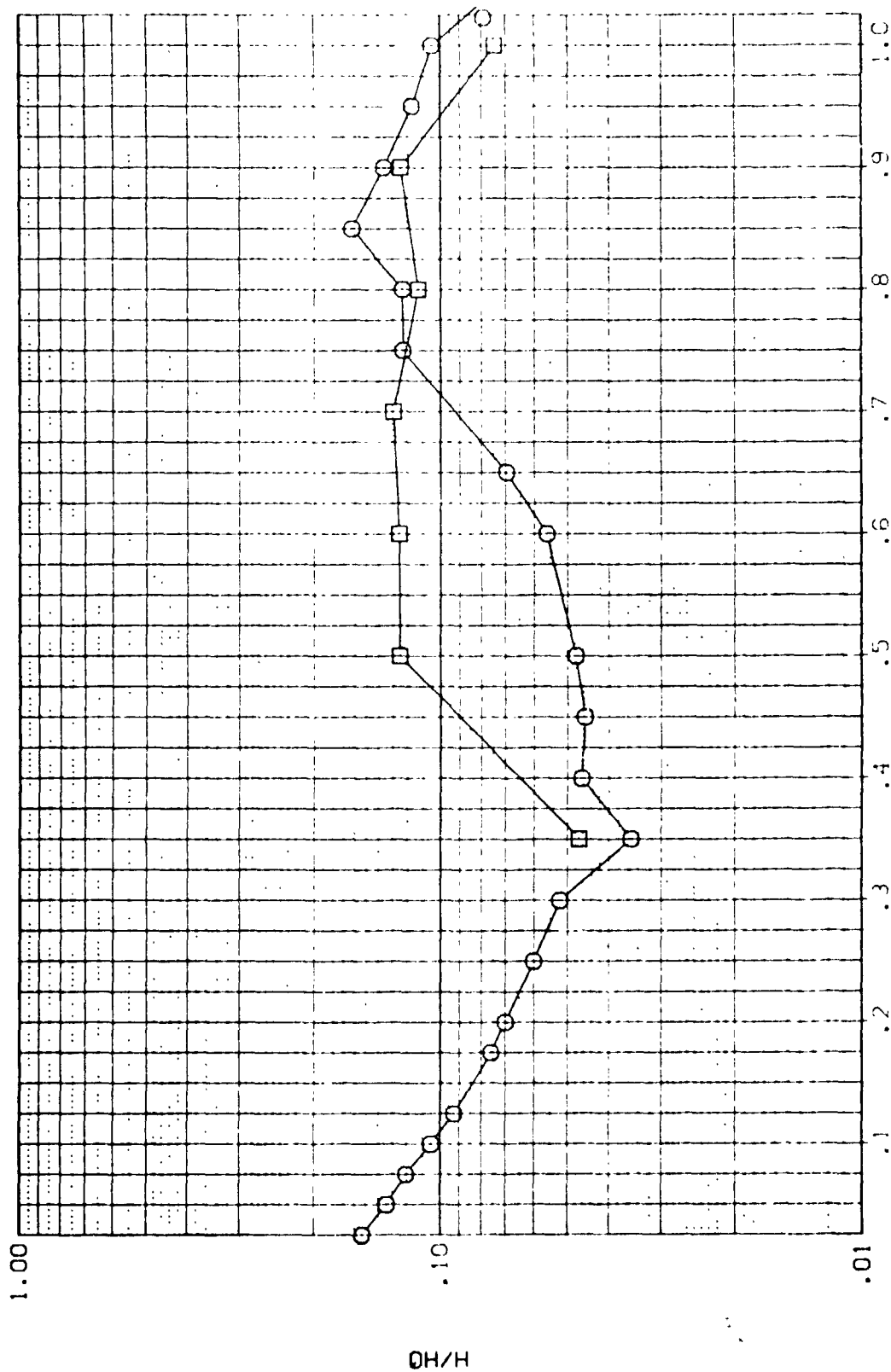


FIG 10 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLW04) QH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL 2Y/B
 .400
 .600
 .800

MAW/MT
 .850
 1.000

ALPHA
 MACH

PARAMETRIC VALUES
 30.000 BETA
 8.000 .000

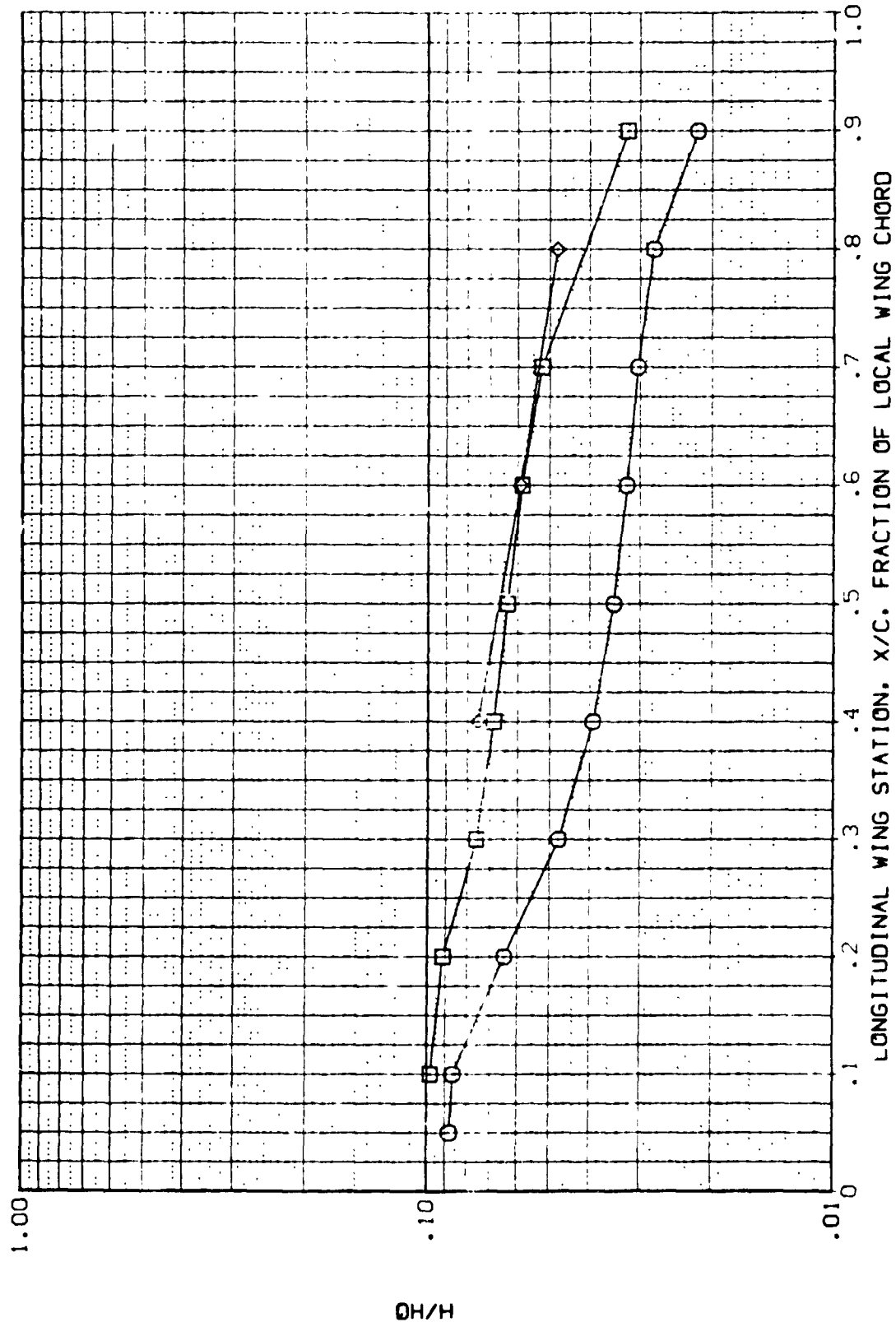


FIG 11 WING LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLW04) OH14 B22C7FSM4V7W111 WING LOWER SURFACE

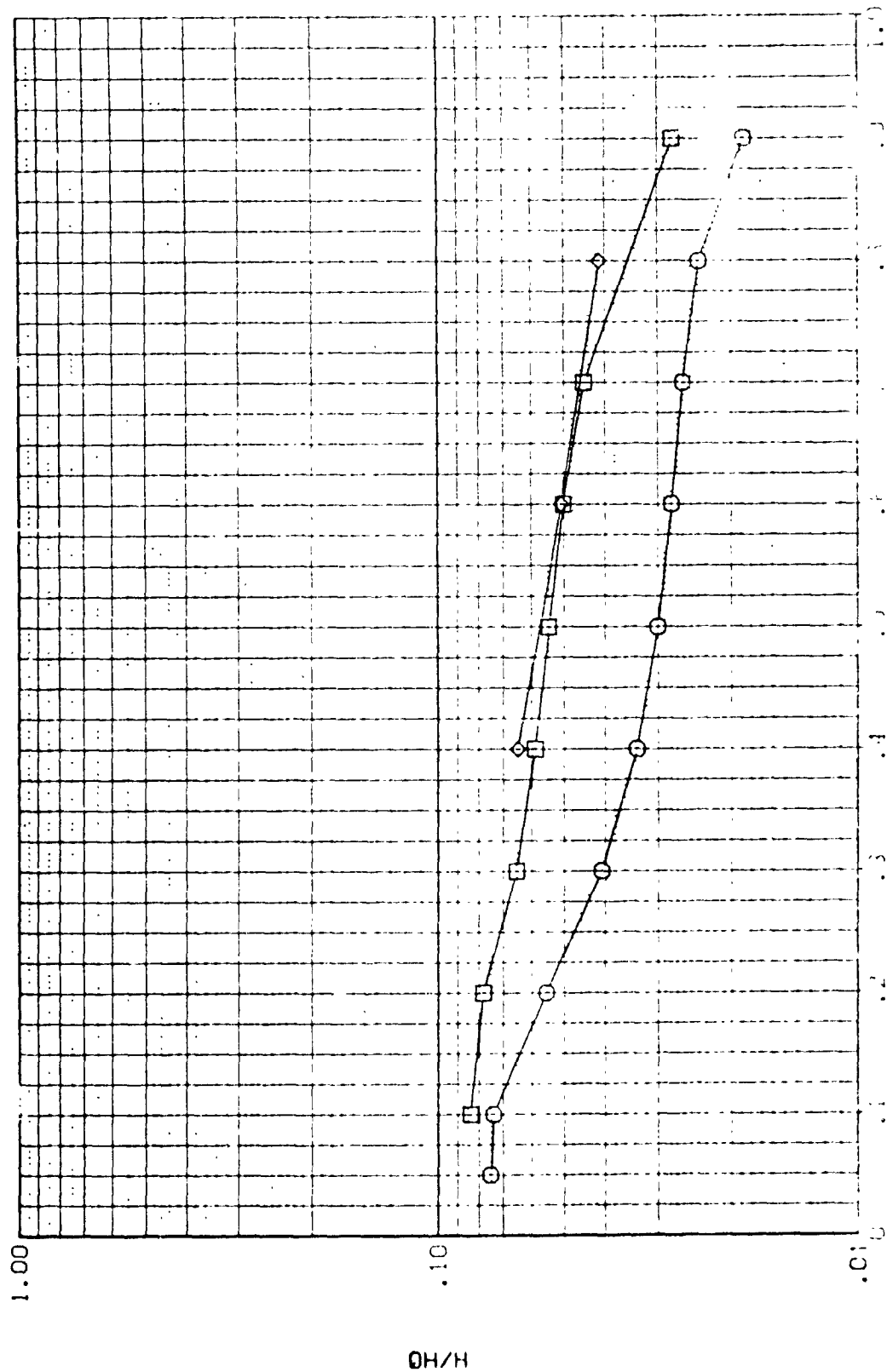
SYMBOL 27/5
 .400
 .600
 .800

HAW/HT
 .900
 1.000

ALPHA
 MACH

PARAMETRIC VALUES
 30.000 BETA
 8.000

.000



LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 WING LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLW04) 0H14 B22C7F5M4V7W111 WING LOWER SURFACE

PARAMETRIC VALUES
ALPHA 33.000
MACH 8.000
BETA .000

SW/BC 2V/B
-4H/H47 3.000
-650
-400
-600
-800

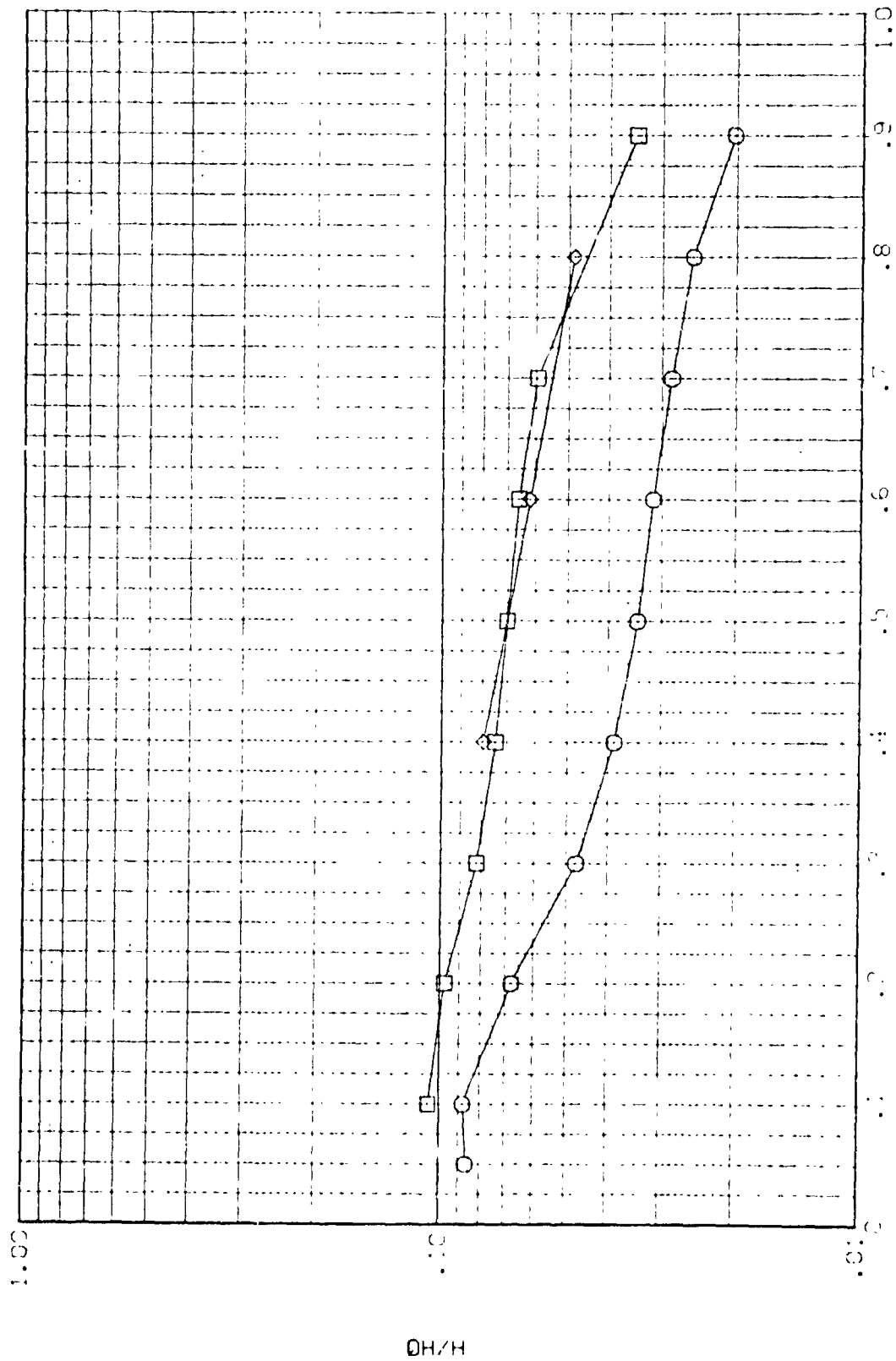


FIG 11 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
WING LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLW04) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL 2X/B .400 .600 .800
 MAX/HT .900 3.000
 RN/L
 ALPHA MACH
 PARAMETRIC VALUES 30.000 8.000 .000 BETA

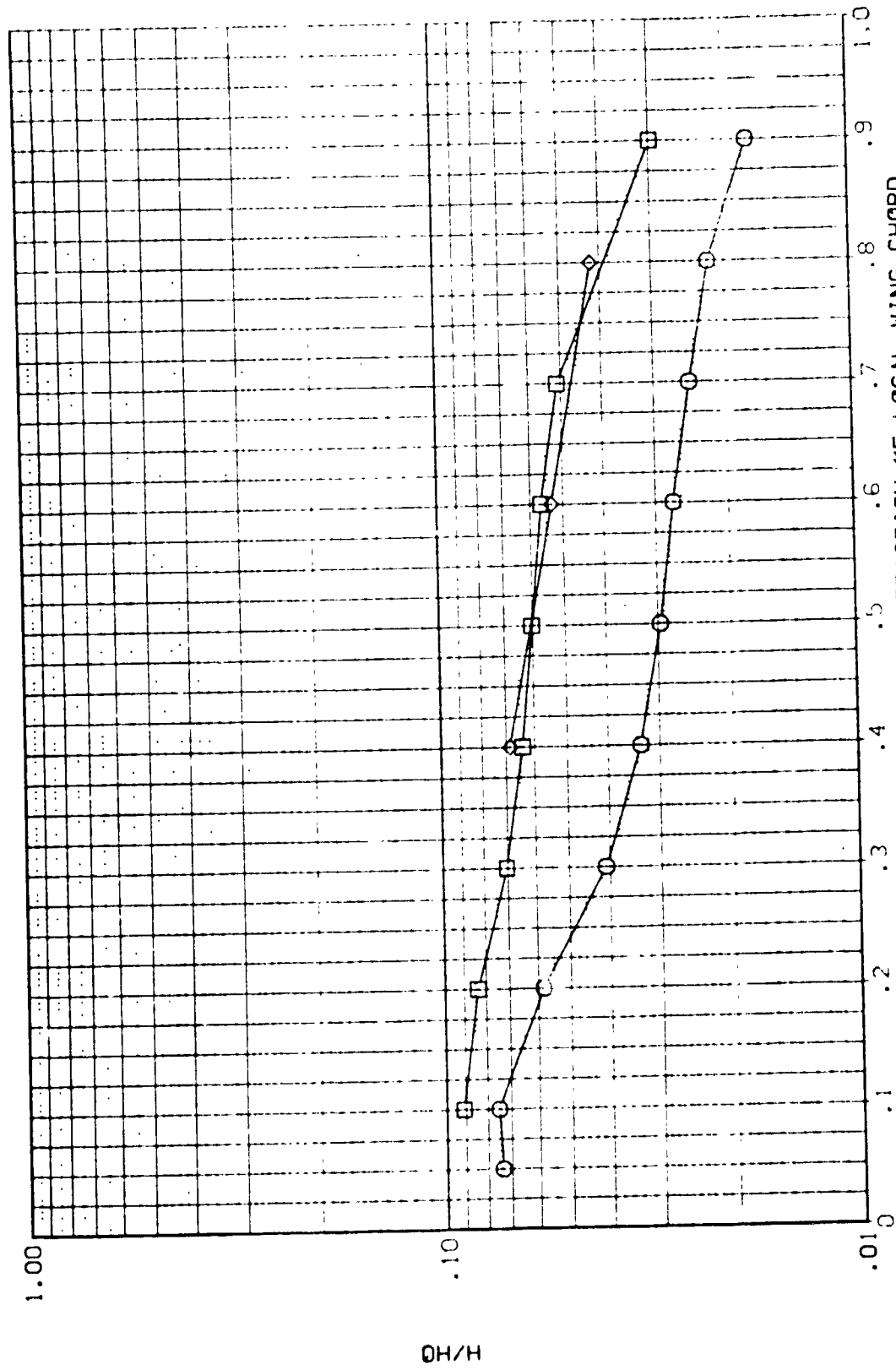


FIG 11 WING LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(ROLW04) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

| | | | | | |
|--------|------|--------|-------|-------|-------------------|
| SYMBOL | 2V/B | MAV/MT | RM/L | ALPHA | PARAMETRIC VALUES |
| □ | .400 | .850 | 4.000 | MACH | 30.000 BETA |
| ◇ | .600 | | | | 8.000 |
| ◇ | .800 | | | | .000 |

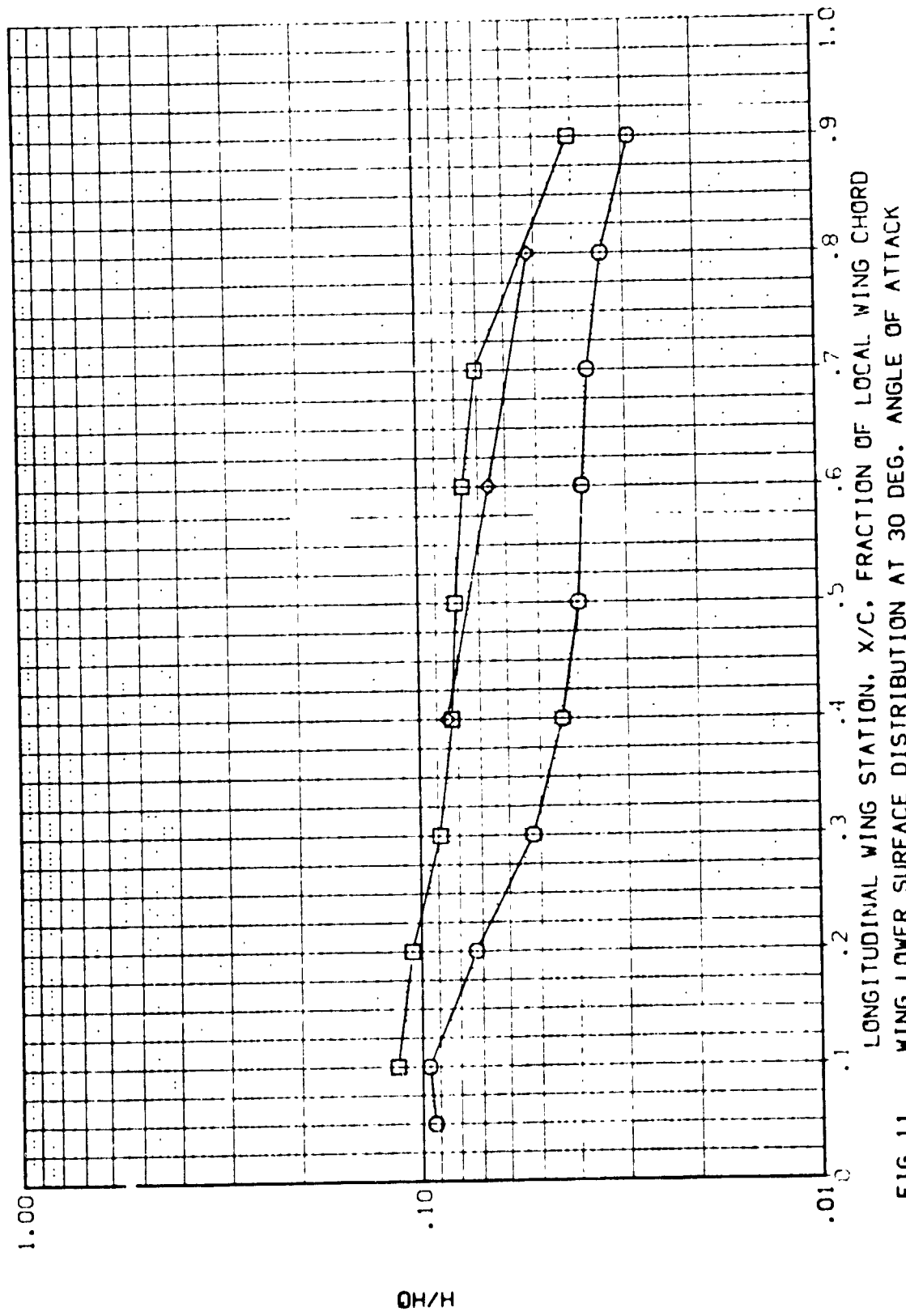


FIG 11 WING LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

OH14 B22C7F5M4V7W111 WING LOWER SURFACE

(R0LW04)
SYMBOL 2V/B
400
600
800

HAU/HY
900
4.000

ALPHA
MACH

PARAMETRIC VALUES
30.000
8.000
BETA
.000

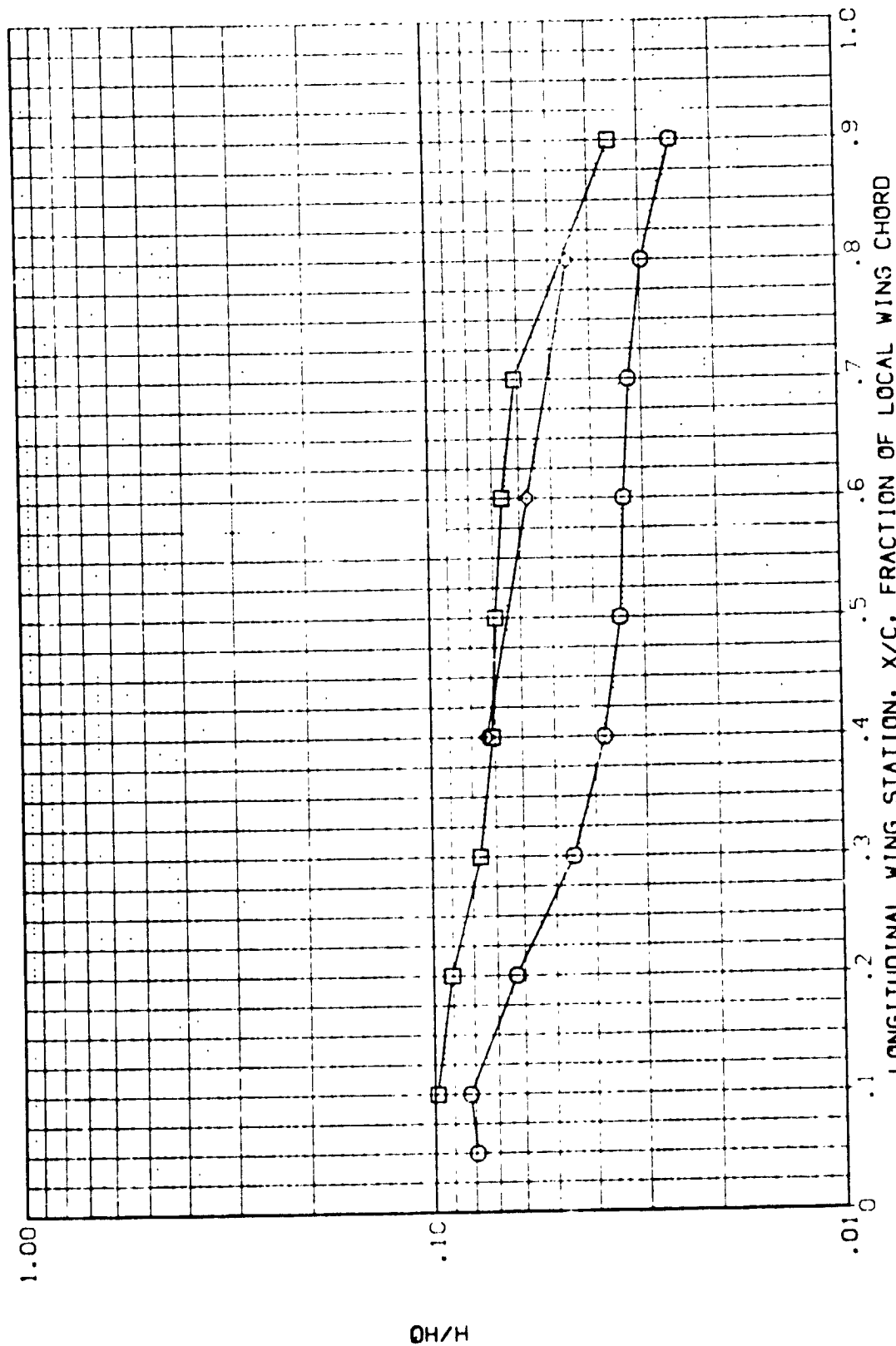


FIG 11 WING LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLW04) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL 2V/B
 .400
 .600
 .800

MAW/MT .850
 RN/L 4.500

PARAMETRIC VALUES
 ALPHA 30.000
 BETA 8.000
 .000

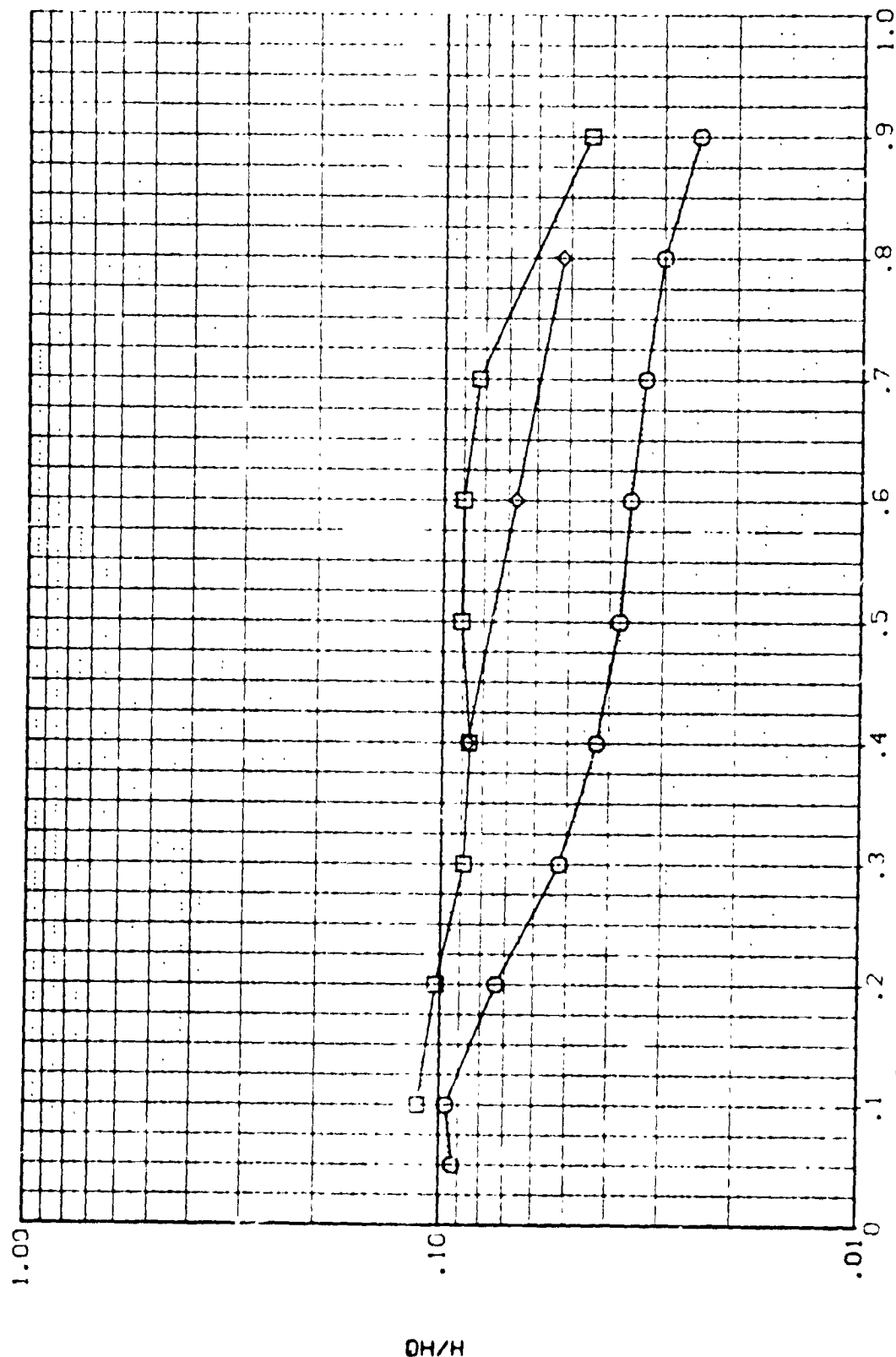


FIG 11 WING LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(R0LW04) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL 2V/B
 .400
 .600
 .800

MAW/MT
 .900 4.500

ALPHA
 MACH

PARAMETRIC VALUES
 30.000 BETA
 5.000 .000

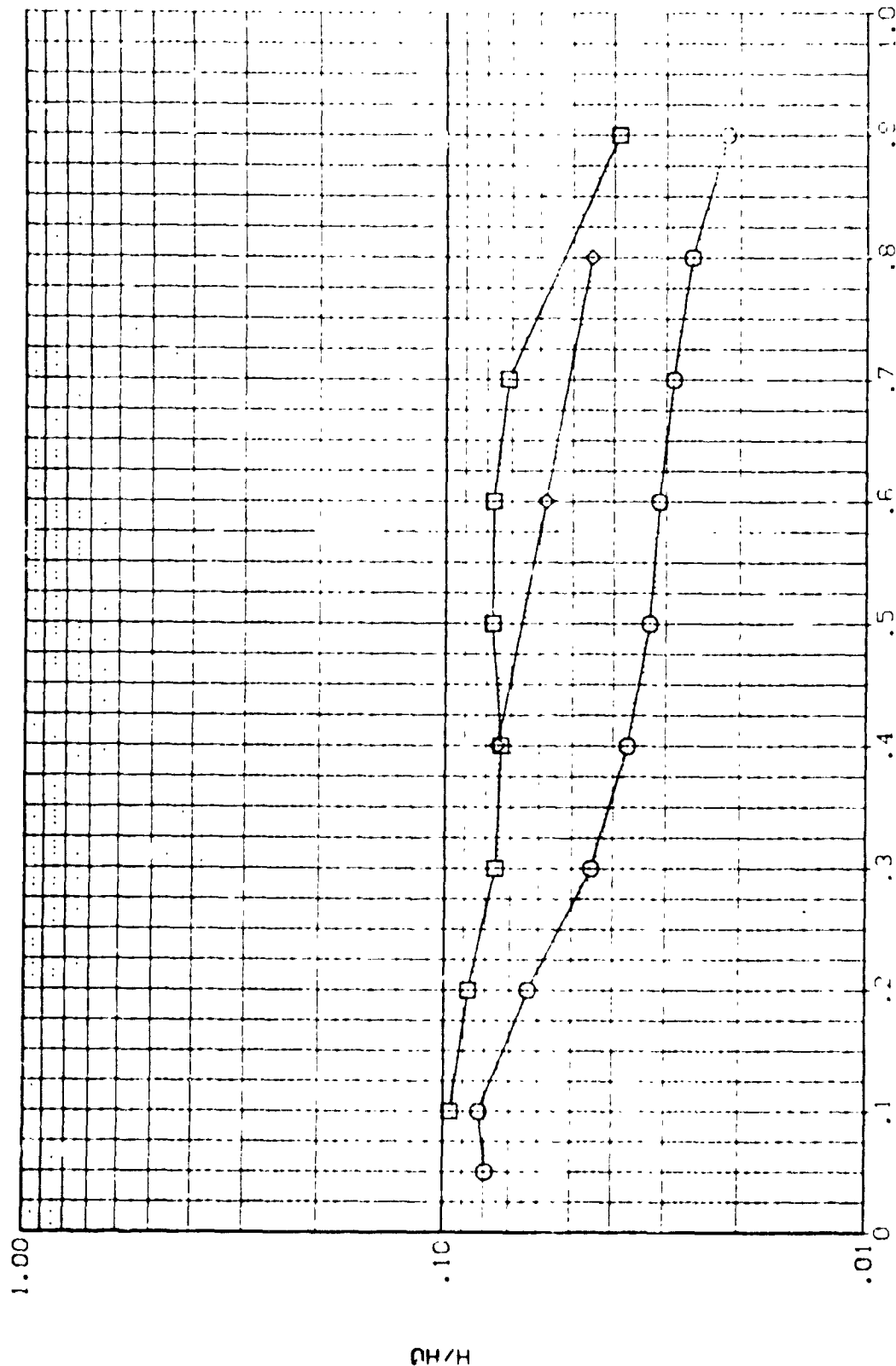


FIG 11 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
 WING LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLW04) QH14 B22C7F5M4V7W111 WING LOWER SURFACE

| | | | | | |
|--------|------|--------|-------|-------|-------------------|
| SYMBOL | 2Y/B | HAH/HT | RN/L | ALPHA | PARAMETRIC VALUES |
| | .400 | .850 | 5.000 | MACH | 30.000 BETA |
| | .600 | | | | 8.000 |
| | .800 | | | | |

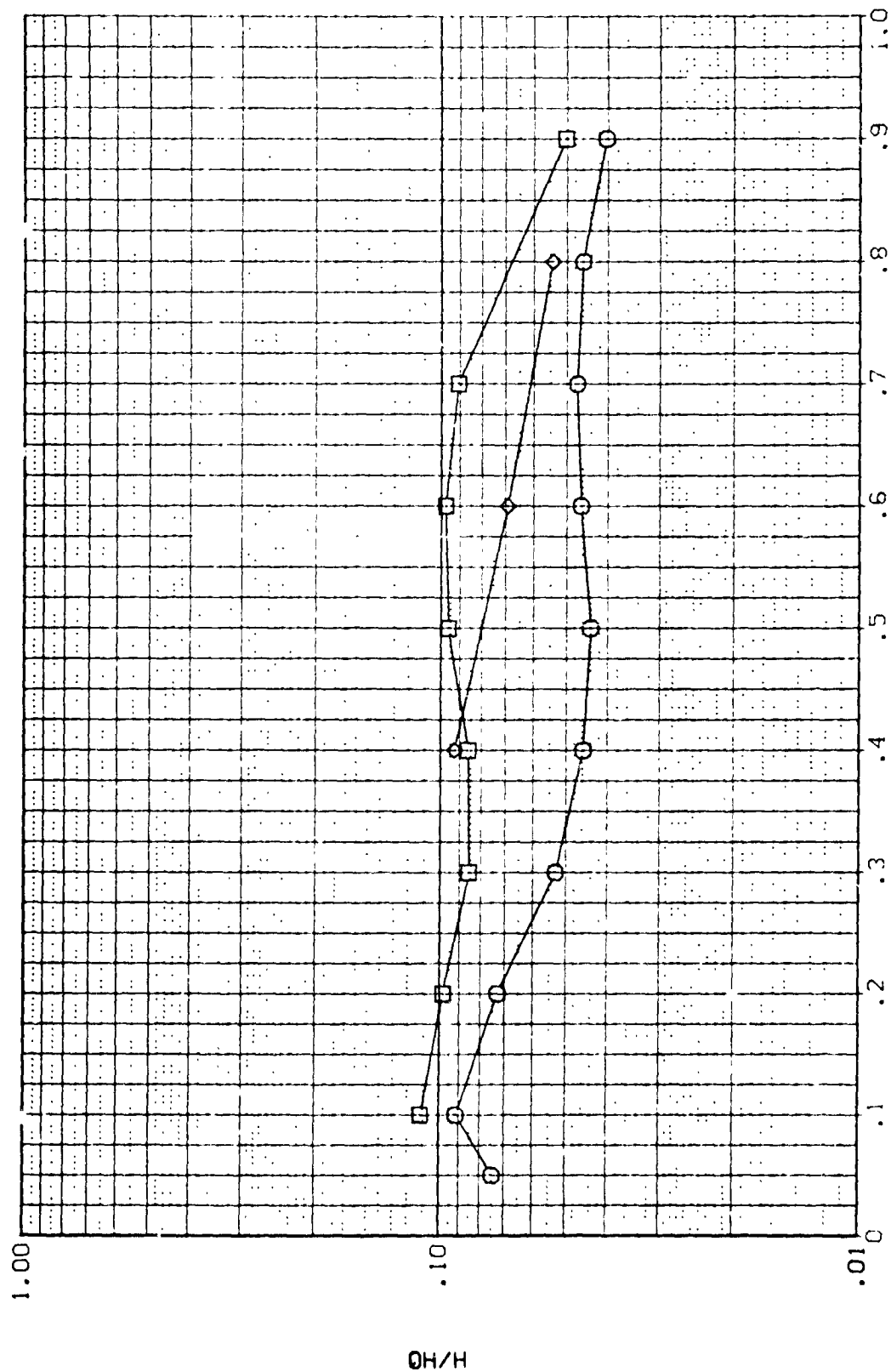


FIG 11 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
WING LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLW04) 0H14 B22C7FSM4V7W111 WING LOWER SURFACE

SYMBOL 2Y/B
 .400
 .600
 .800

HAW/HT
 .900 5.000

ALPHA
 MACH

PARAMETRIC VALUES
 30.000 BETA
 8.000 .000

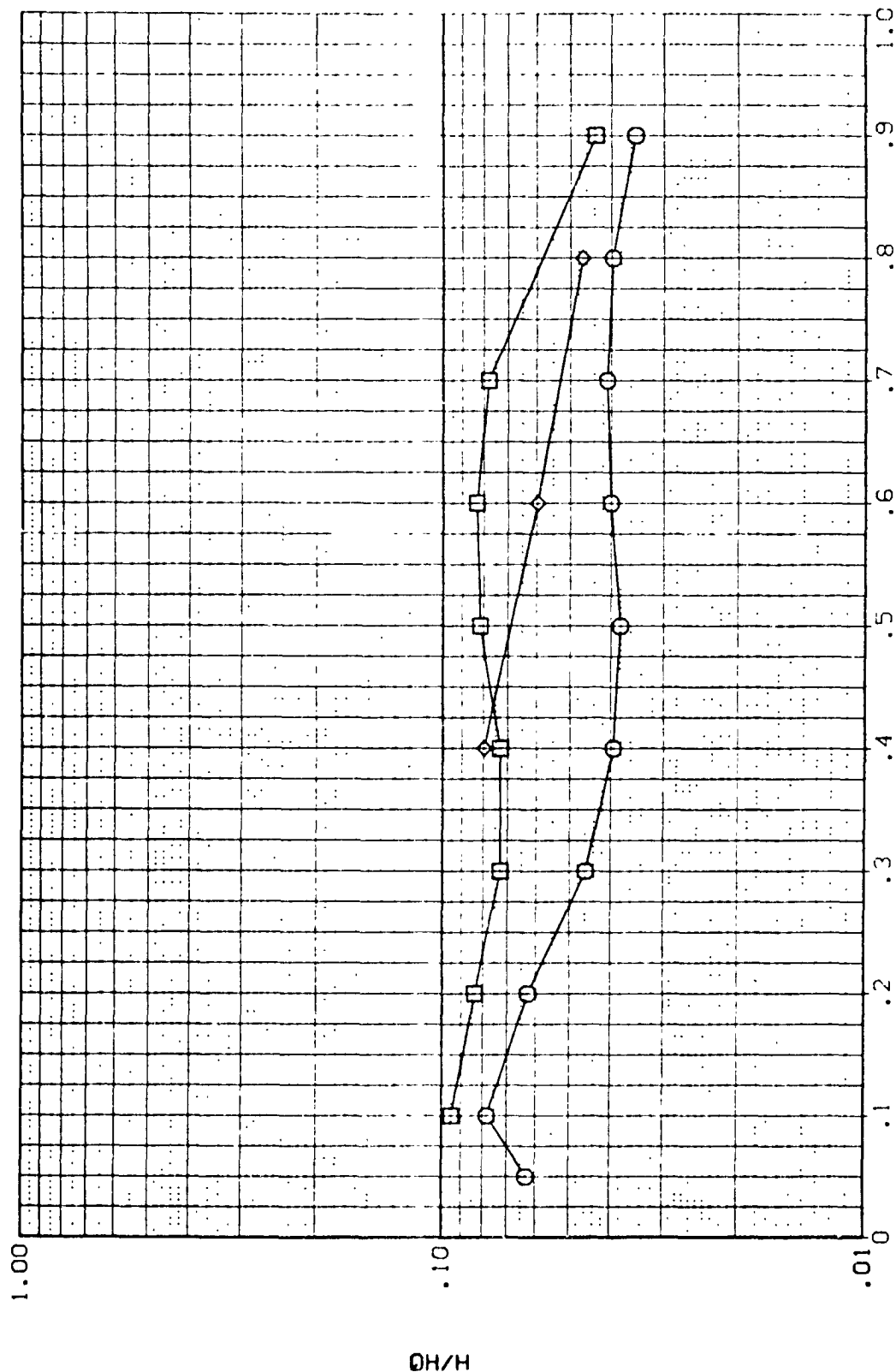


FIG 11 WING LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLW04) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL 2Y/B
 .400
 .600
 .800

HAW/HT
 .850 5.500

PARAMETRIC VALUES
 ALPHA MACH
 30.000 8.000
 BETA .000

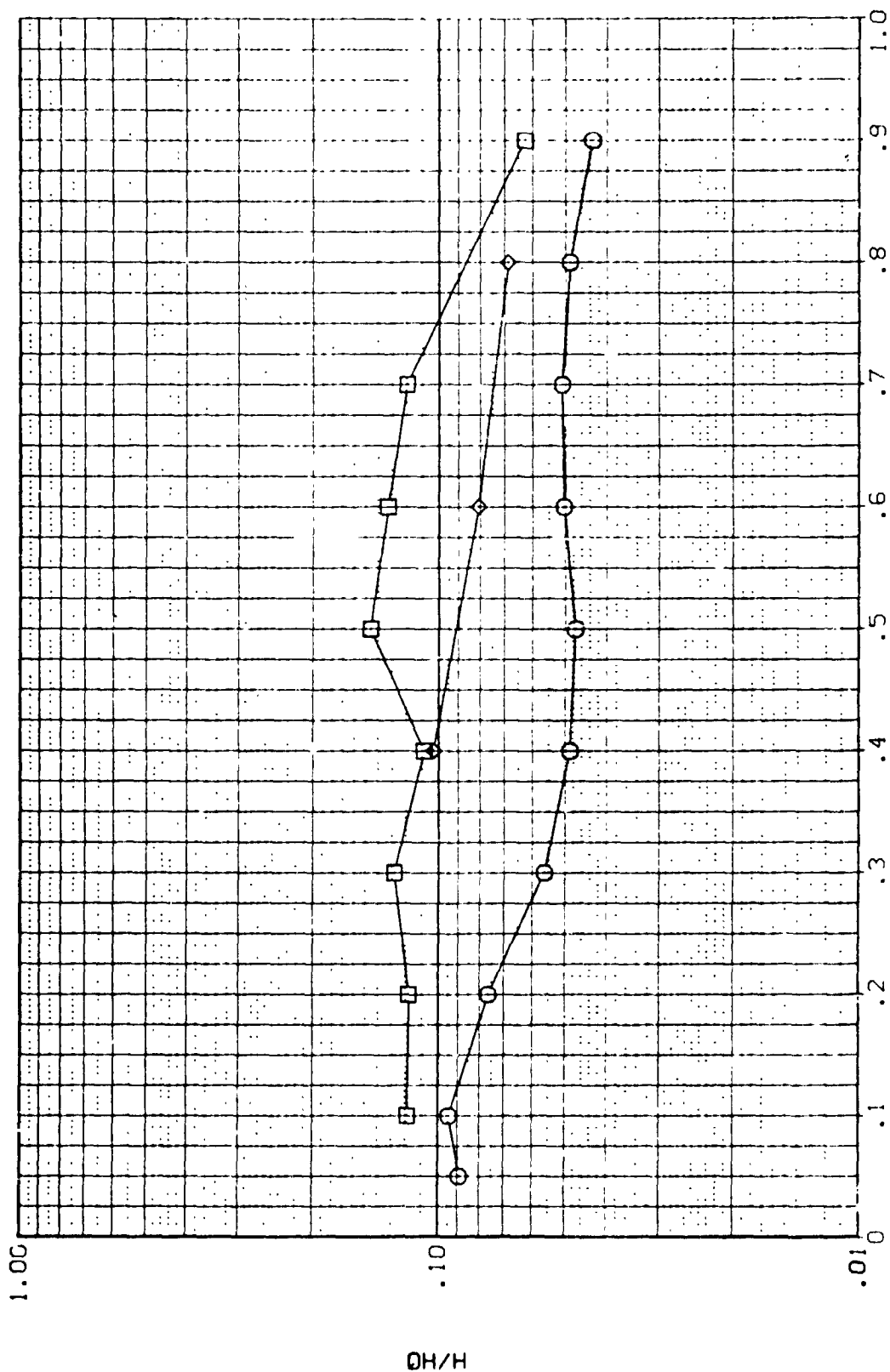


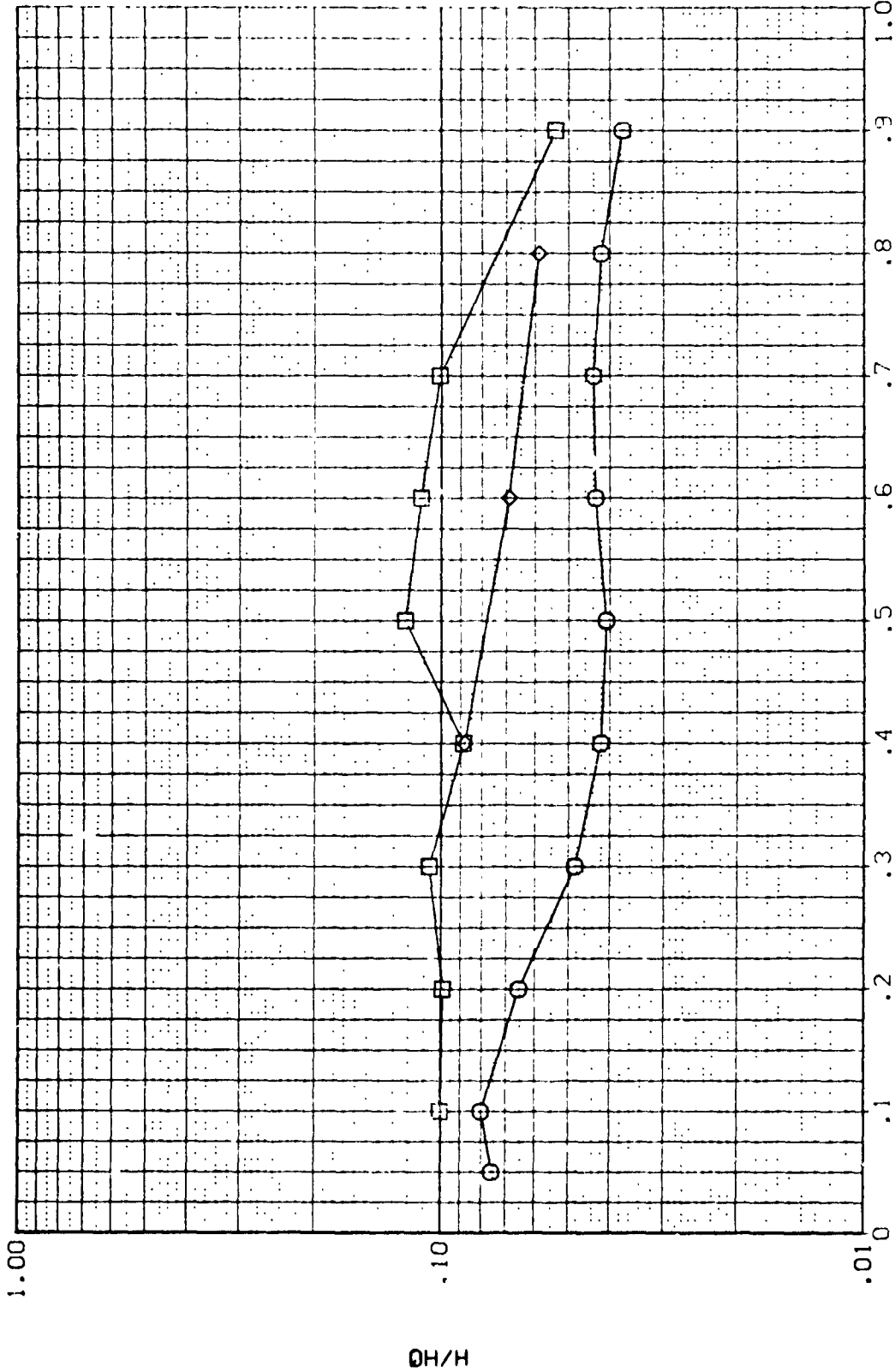
FIG 11 WING LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

[RQLW04] OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL 2Y/B
 400
 600
 800

HAH/MT .900
 RN/L 5.500

PARAMETRIC VALUES
 ALPHA: 30.000
 MACH 8.000
 BETA .000



LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD

FIG 11 WING LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLW04) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL 2Y/B
 □ 0.400
 ◇ 0.600
 ○ 0.800

HAV/HT 0.850
 RV/L 6.000

PARAMETRIC VALUES
 ALPHA 30.000
 MACH 8.000
 BETA .000

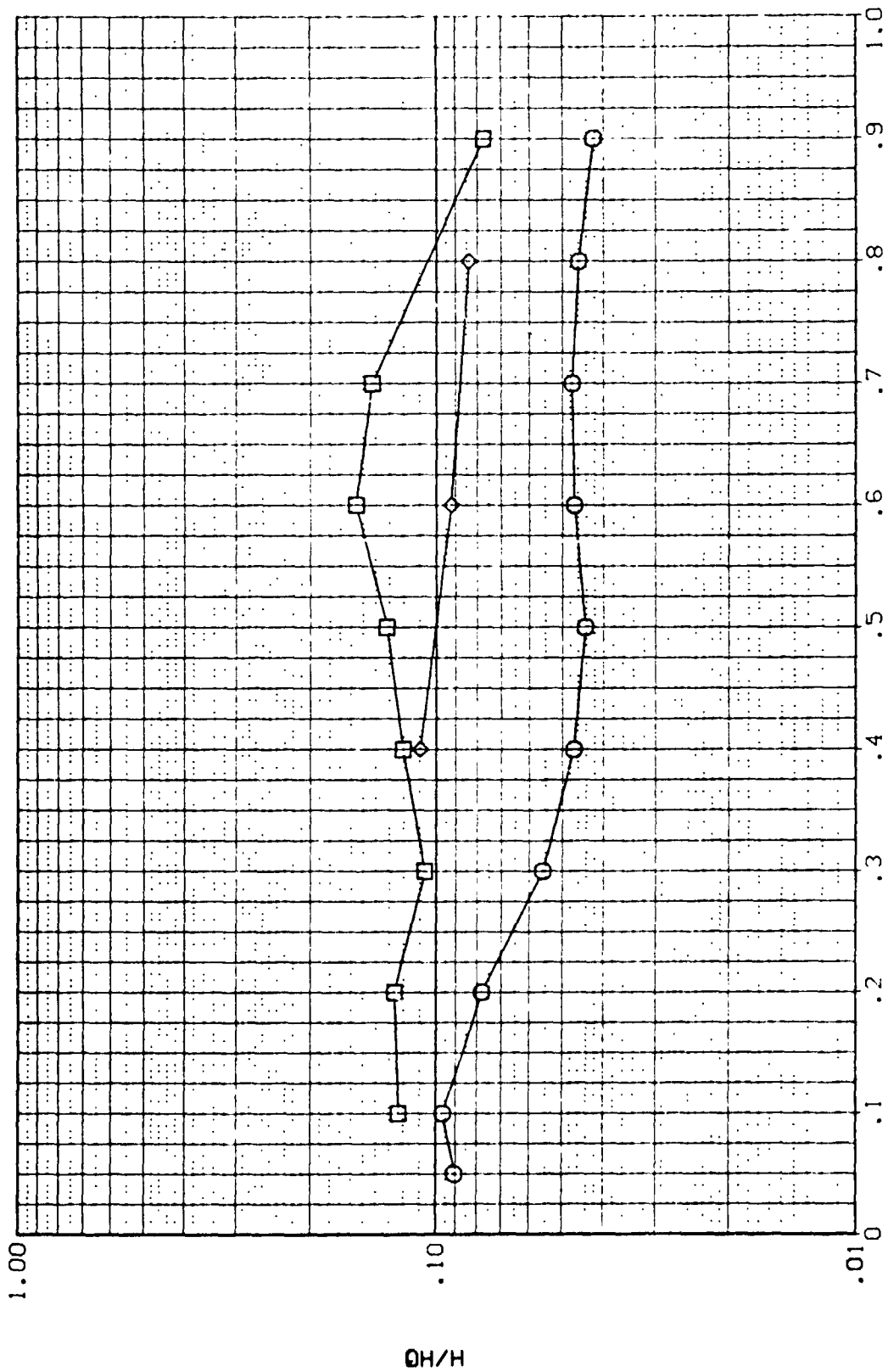


FIG 11 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
 WING LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQ:W04) QH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL 2V/8
 .400
 .600
 .800

HAV/HT
 .500 6.000

PARAMETRIC VALUES
 ALPHA
 MACH
 30.000
 8.000
 .000

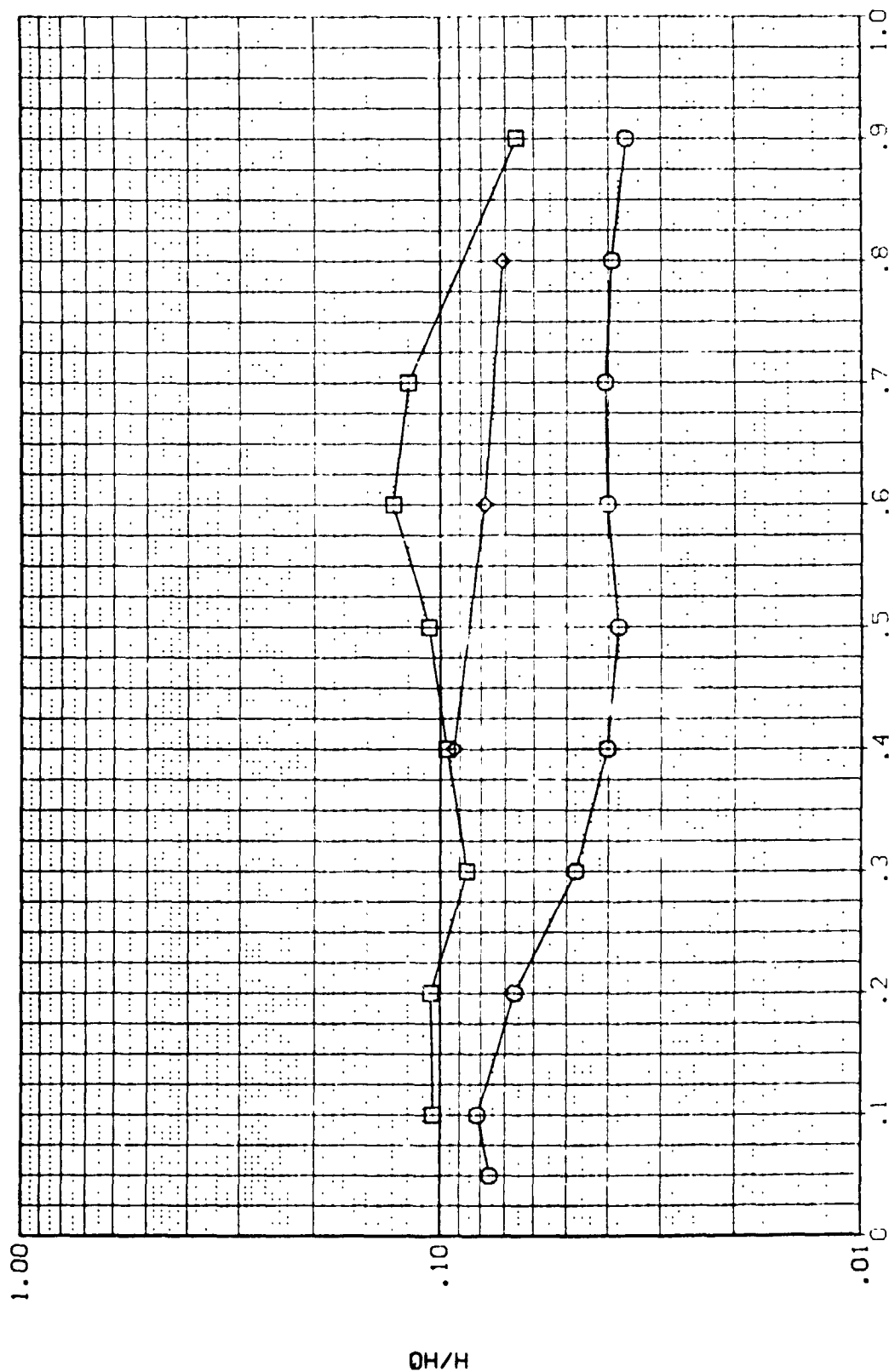


FIG 11 WING LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLW04) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

PARAMETRIC VALUES
 30.000 BETA
 8.000

SYMBOL 2V/B
 .400
 .600
 .800

HAB/HT
 .850

RN/L
 8.000

ALPHA
 MACH

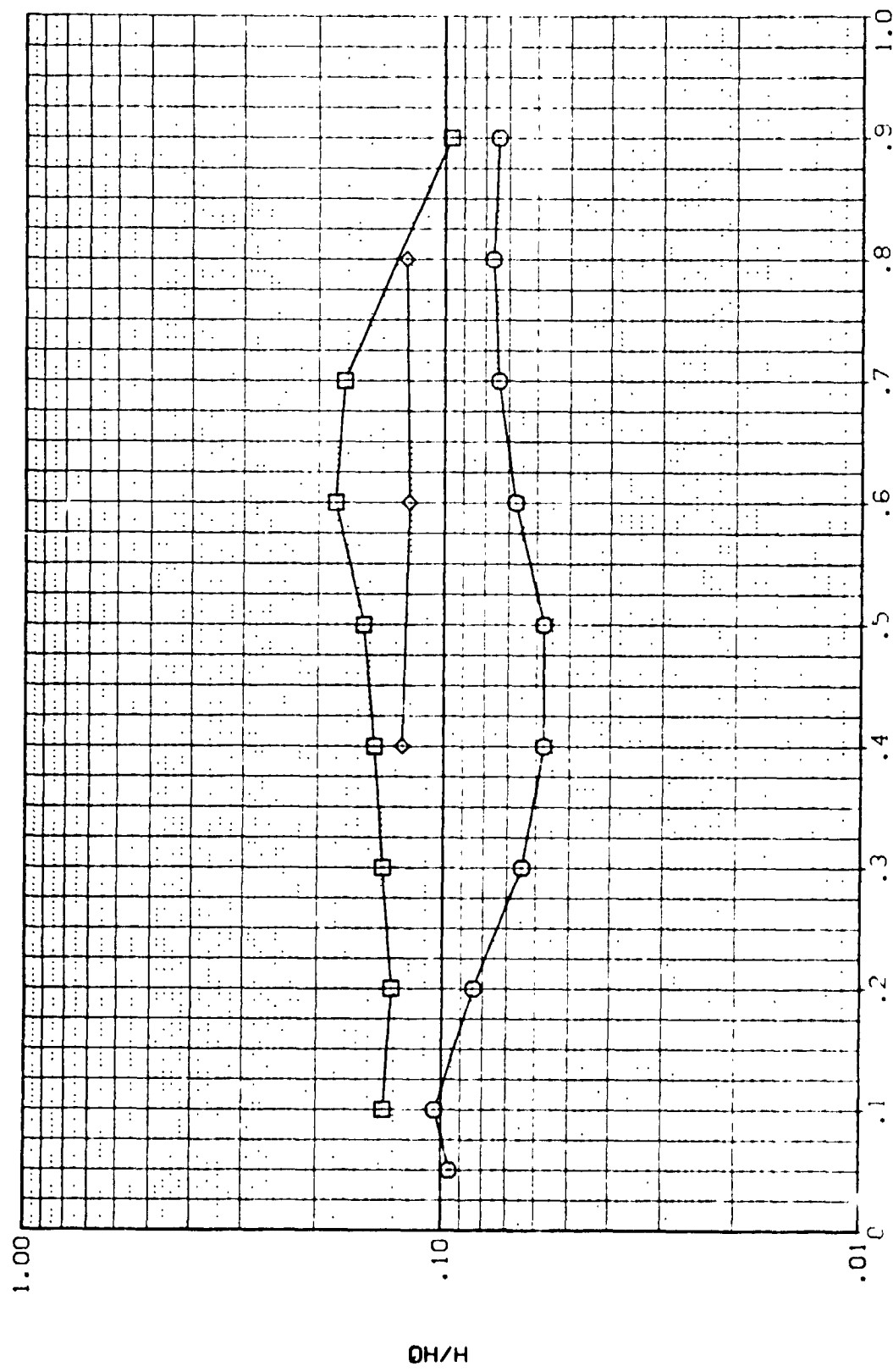


FIG 11 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
 WING LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLW04) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

PARAMETRIC VALUES
 30.000 BETA
 8.000

ALPHA
 MACH

MAW/MT .900
 RH/L 8.000

SYMBOL 2Y/B
 .400
 .600
 .800

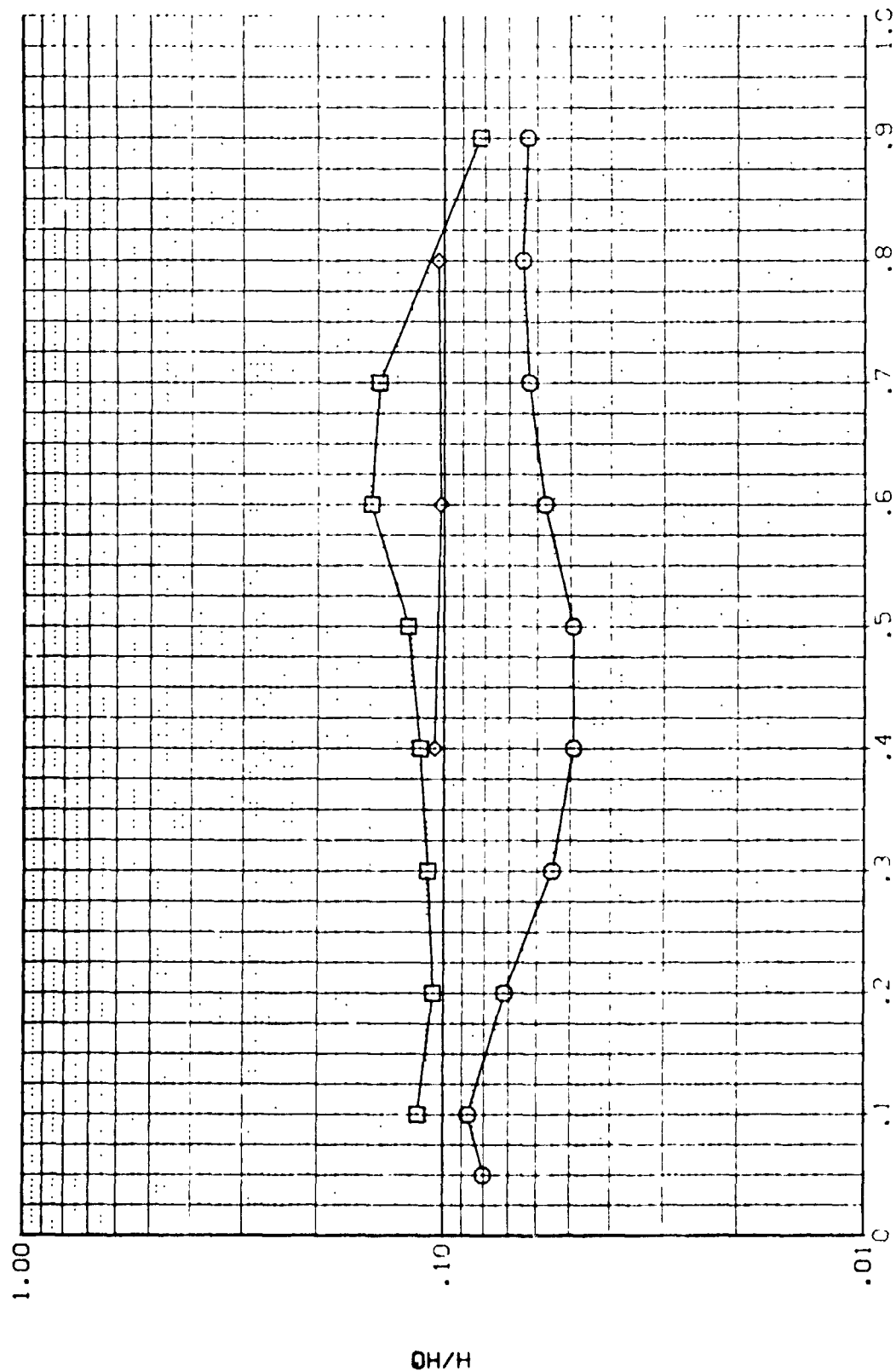


FIG 11 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 WING LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(R0LW04) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

| | | | | | |
|--------|------|--------|--------|-------|-------------------|
| SYMBOL | 2V/B | MAN/HT | RN/L | ALPHA | PARAMETRIC VALUES |
| □ | .400 | .850 | 10.000 | MACH | 30.000 |
| ○ | .500 | | | | 8.000 |
| ◇ | .800 | | | | .000 |

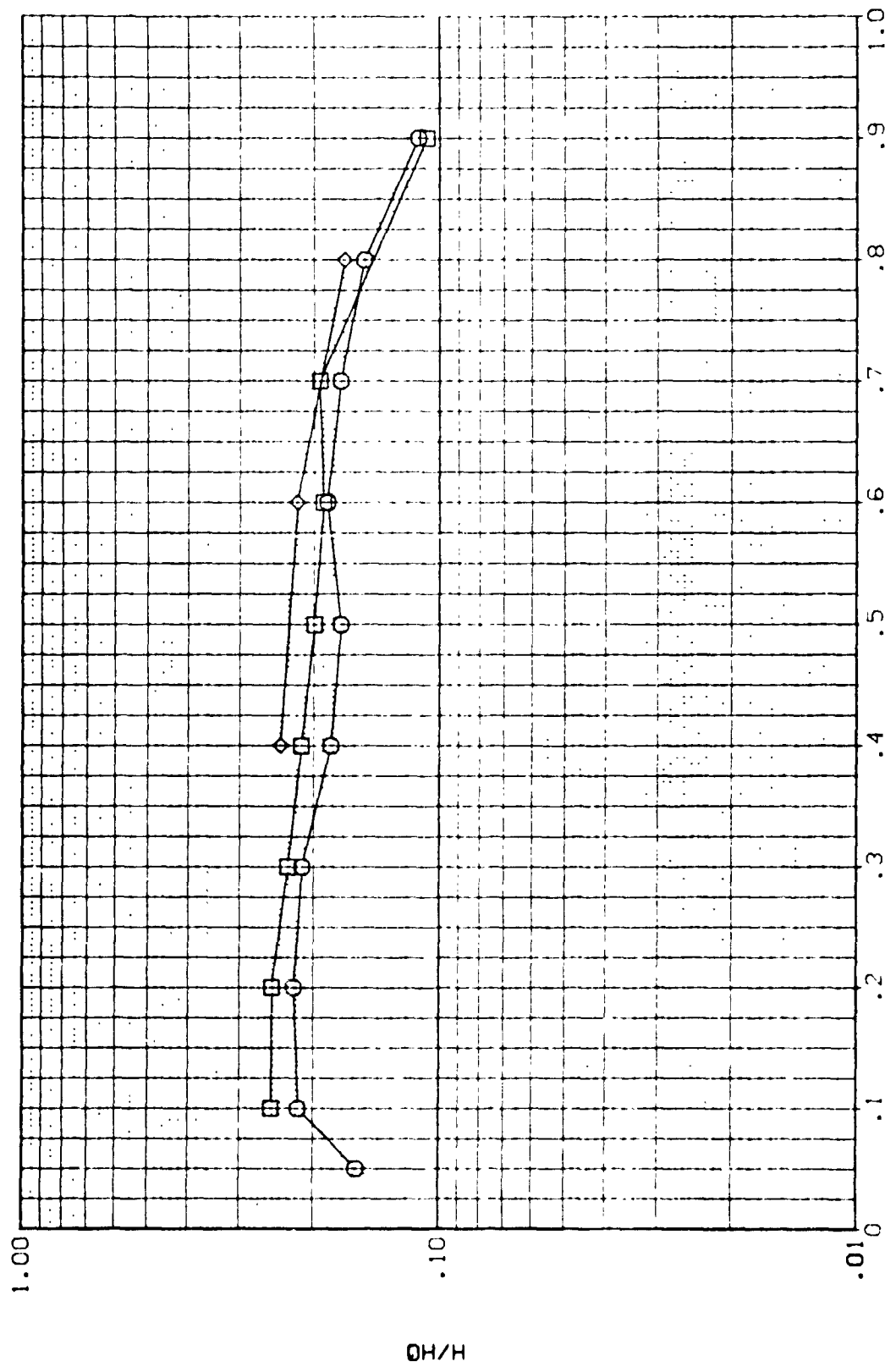


FIG 11 WING LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLW04) 0H14 B22C7F5M4V7W111 WING LOWER SURFACE

PARAMETRIC VALUES
 ALPHA 30.000 BETA .000
 MACH 8.000

SYNTHETIC
 2Y/B .400
 .600
 .800
 HAW/HT .900
 RN/L 10.000

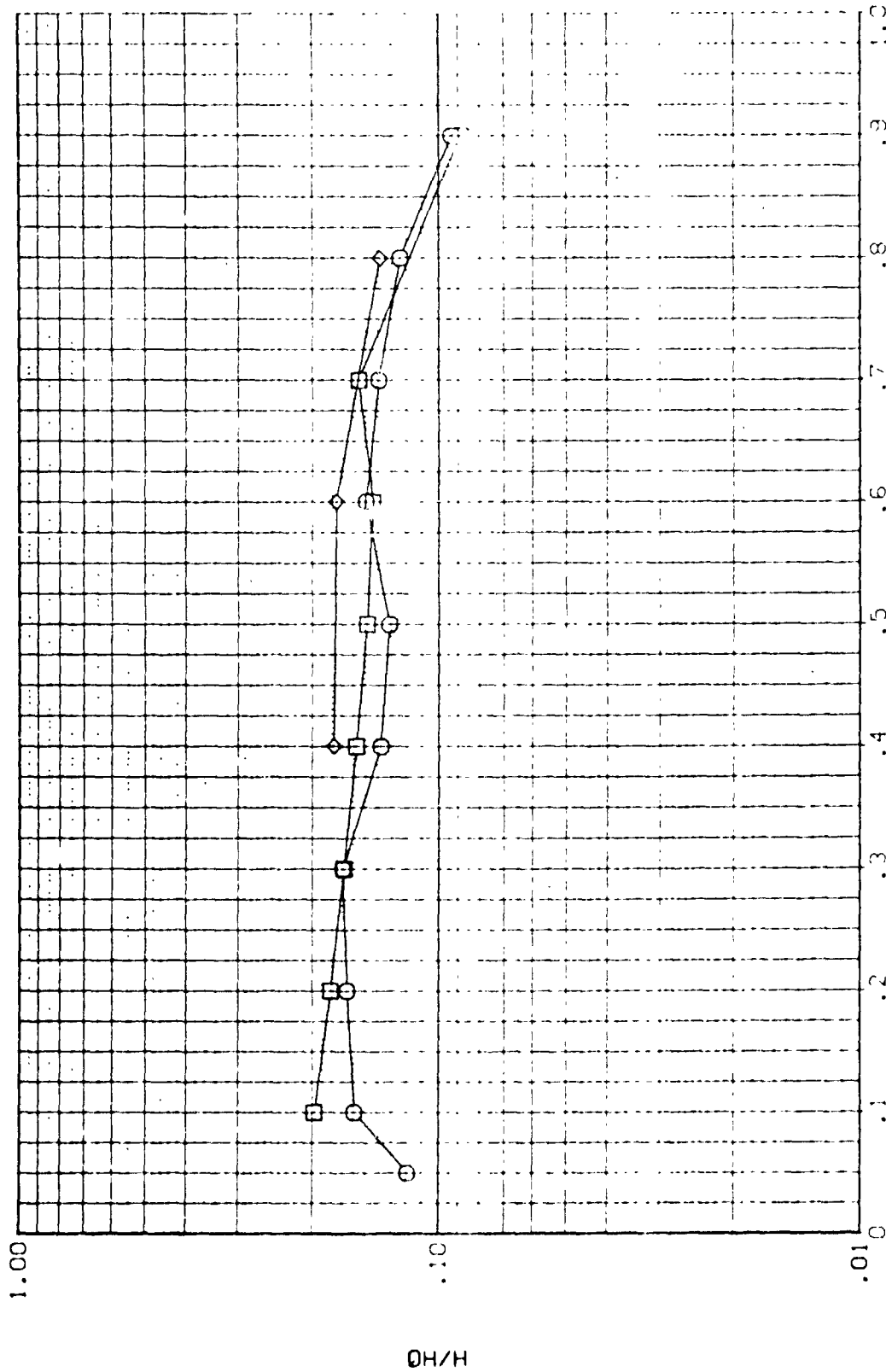


FIG 11 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 WING LOWER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLS04) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 30.000 BETA
 8.000
 ALPHA
 MACH

MAV/HT .850
 RN/L 1.000

V.P.
 375.000
 400.000
 425.000
 465.000
 501.000

SYMBOL
 □
 ○
 △

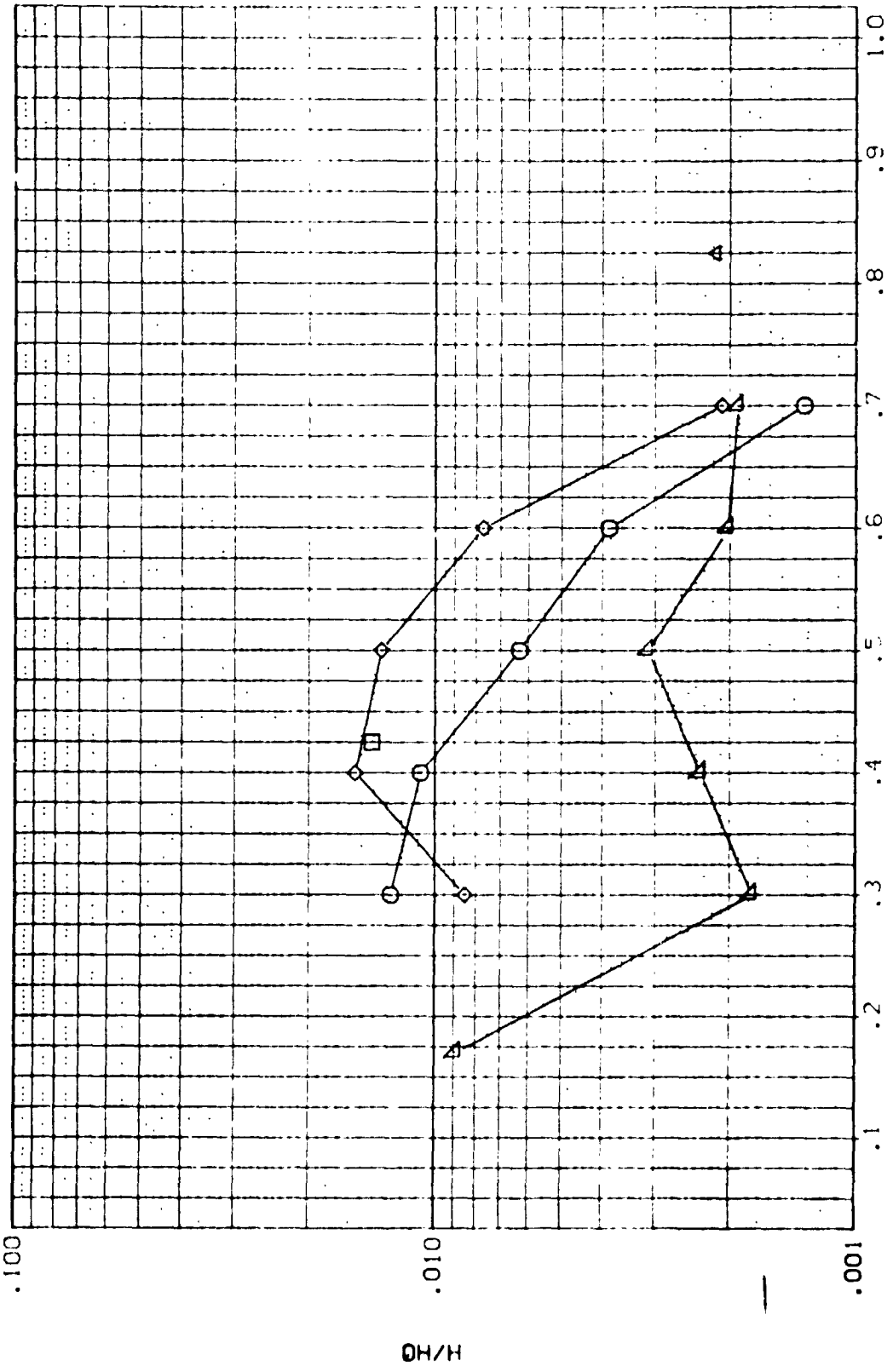


FIG 12 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLS04) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL W.P.
 375.000
 400.000
 425.000
 465.000
 501.000

HAW/WT RN/L
 .900 1.000

PARAMETRIC VALUES
 ALPHA MACH
 30.000 8.000
 BETA .000

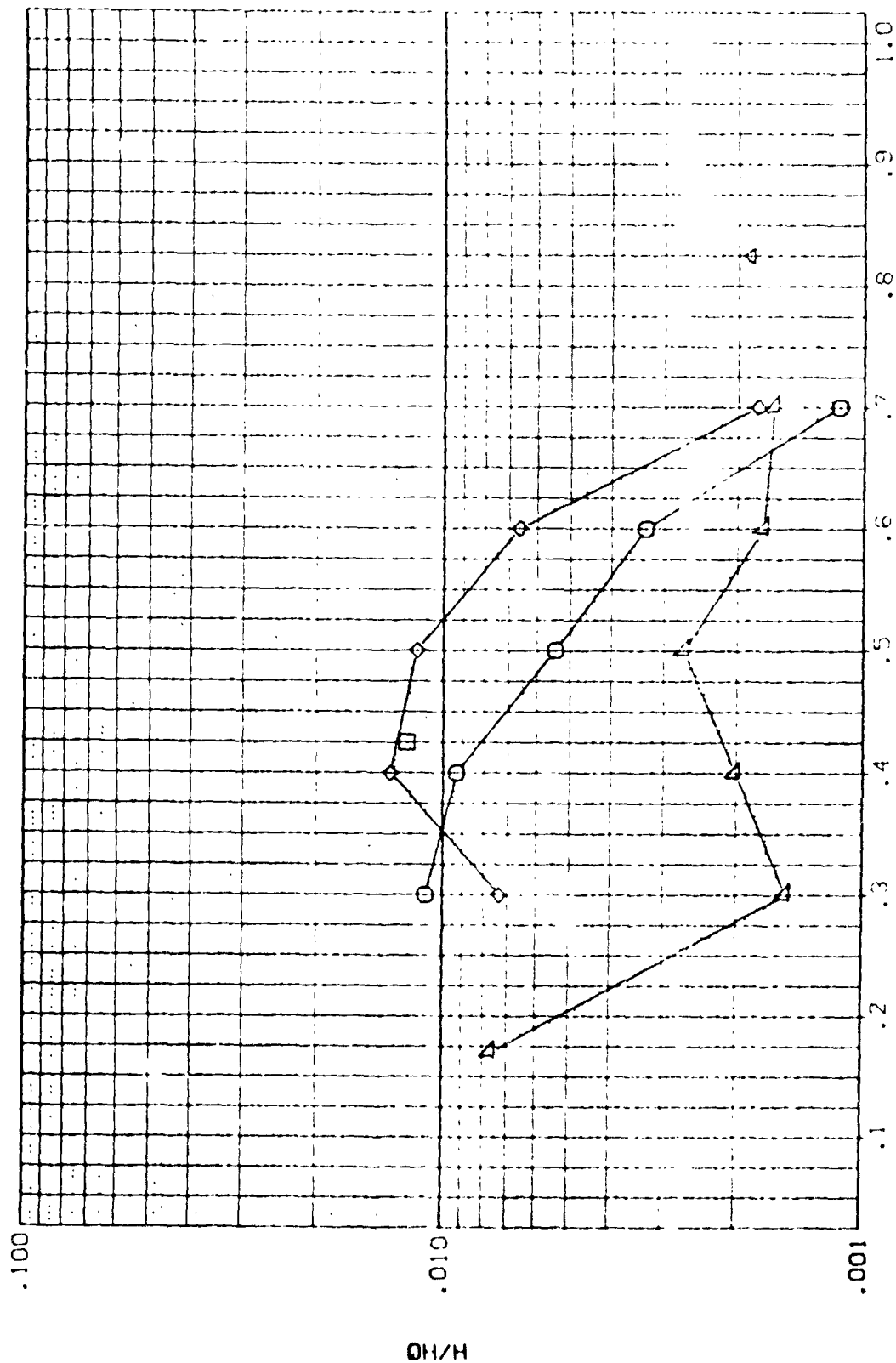


FIG 12 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLS04) OH14 B22C7F 5M4V7W111 FUSELAGE UPPER SURFACE

Symbol V.P.
 375.000
 400.000
 425.000
 465.000
 501.000

MA8/HT .650
 RN/L 3.000

ALPHA
 MACH

PARAMETRIC VALUES
 30.000 BETA
 8.000 .009

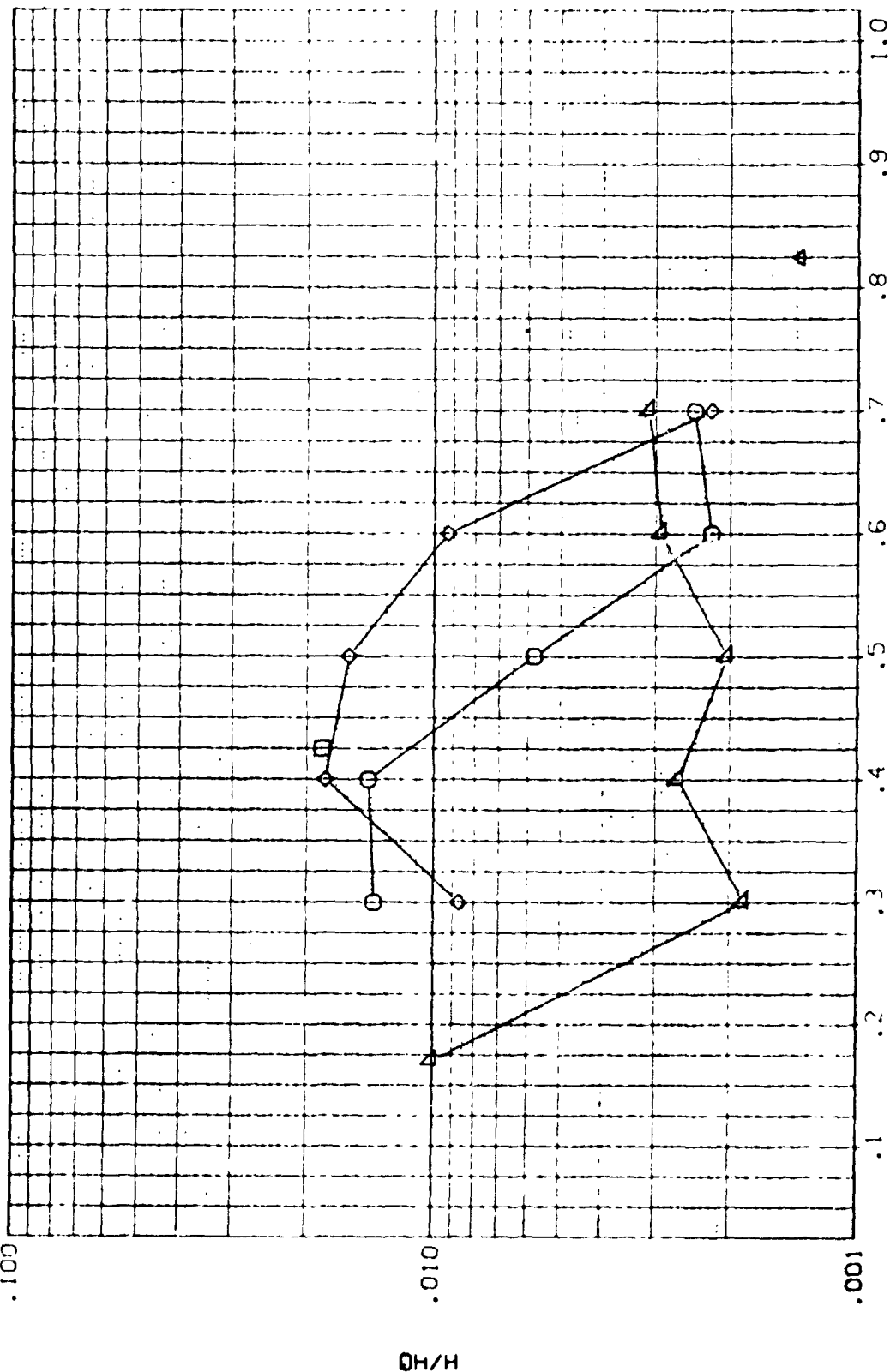


FIG 12 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(R0LS04) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL
 375.000
 400.000
 425.000
 450.000
 501.000

HAIR/HT
 .900 3.000

ALPHA
 MACH

PARAMETRIC VALUES
 30.000 BETA
 8.000 .000

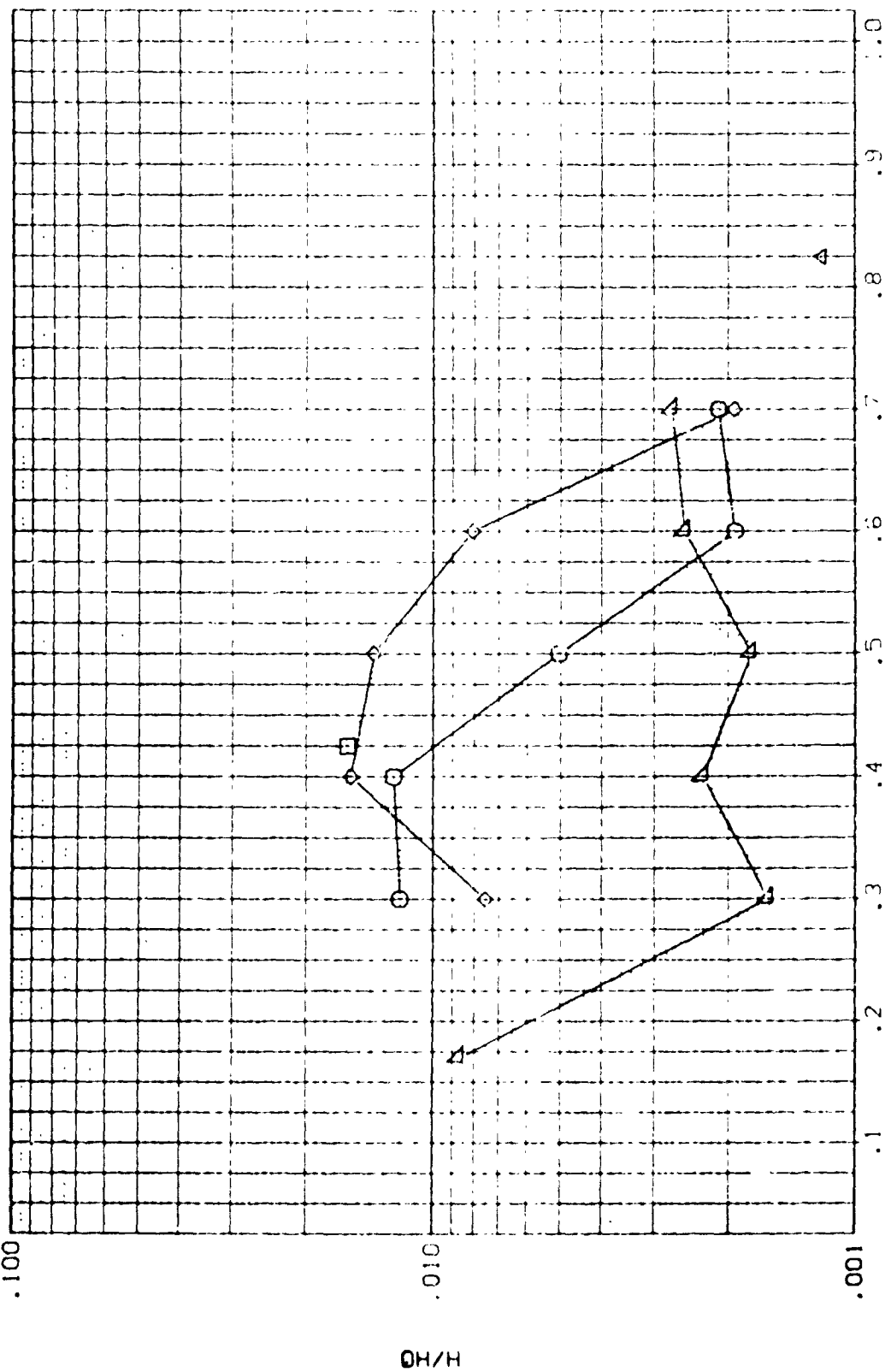


FIG 12 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLS04) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL V.P.
 375.000
 400.000
 425.000
 465.000
 501.000

HAW/HY .850
 RN/L 4.000

PARAMETRIC VALUES
 ALPHA MACH .000
 30.000
 8.000

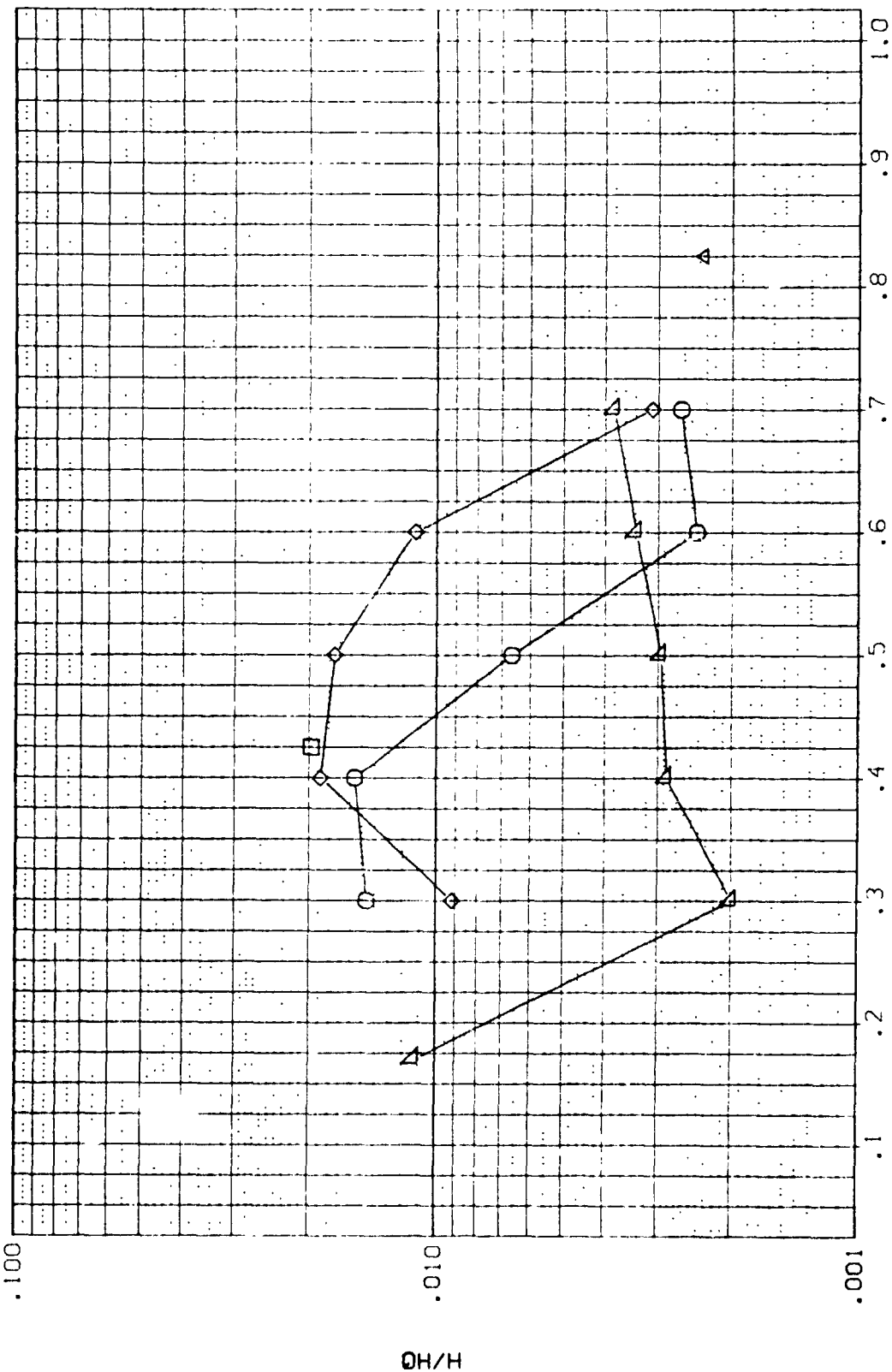
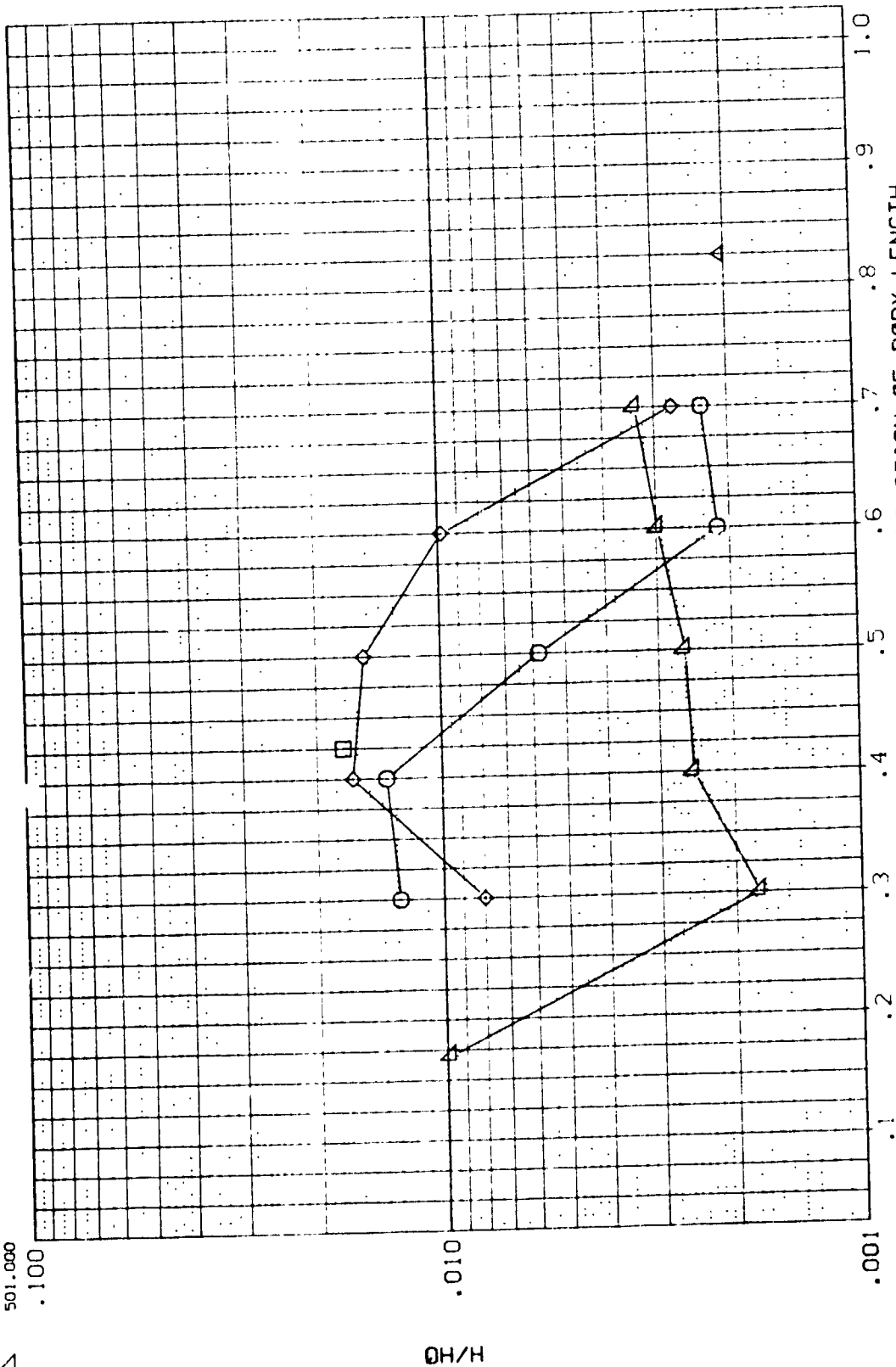


FIG 12 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

[RQLS04] OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL V.P. HAM/HT RN/L ALPHA MACH PARAMETRIC VALUES BETA .000

375.000
400.000
425.000
465.000
501.000
.100



LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
FUSELAGE UPPER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLS04) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL W.P.
 375.000
 400.000
 425.000
 450.000
 475.000
 500.000

MAN/HT .850
 RN/L 4.500

PARAMETRIC VALUES
 30.000 BETA .000
 8.000

ALPHA
 MACH

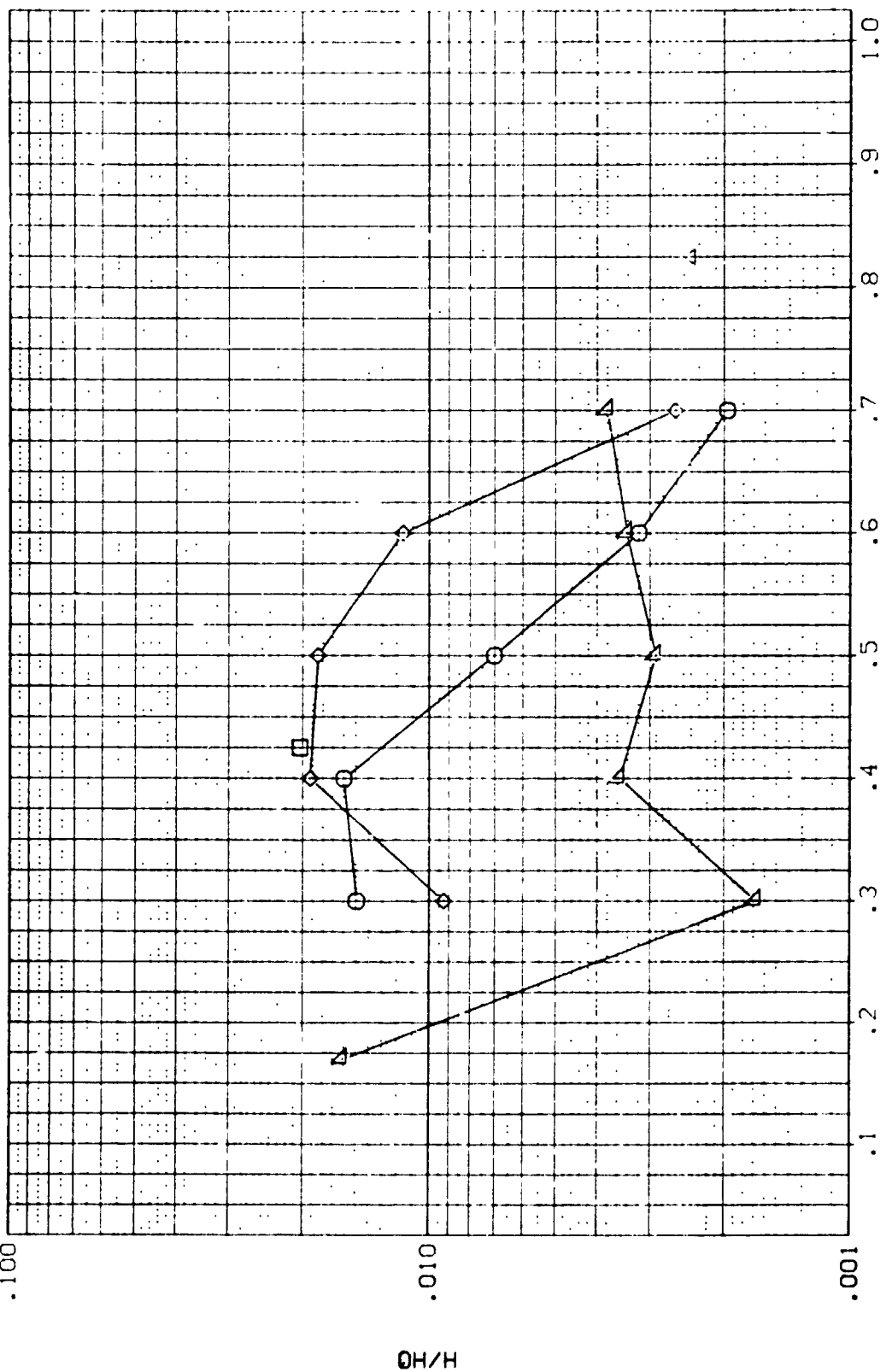


FIG 12 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLS04) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL V.P.
 375.000
 400.000
 425.000
 450.000
 501.000

HAW/HT .900
 RN/L 4.500

PARAMETRIC VALUES
 ALPHA MACH
 30.000
 8.000
 BETA .000

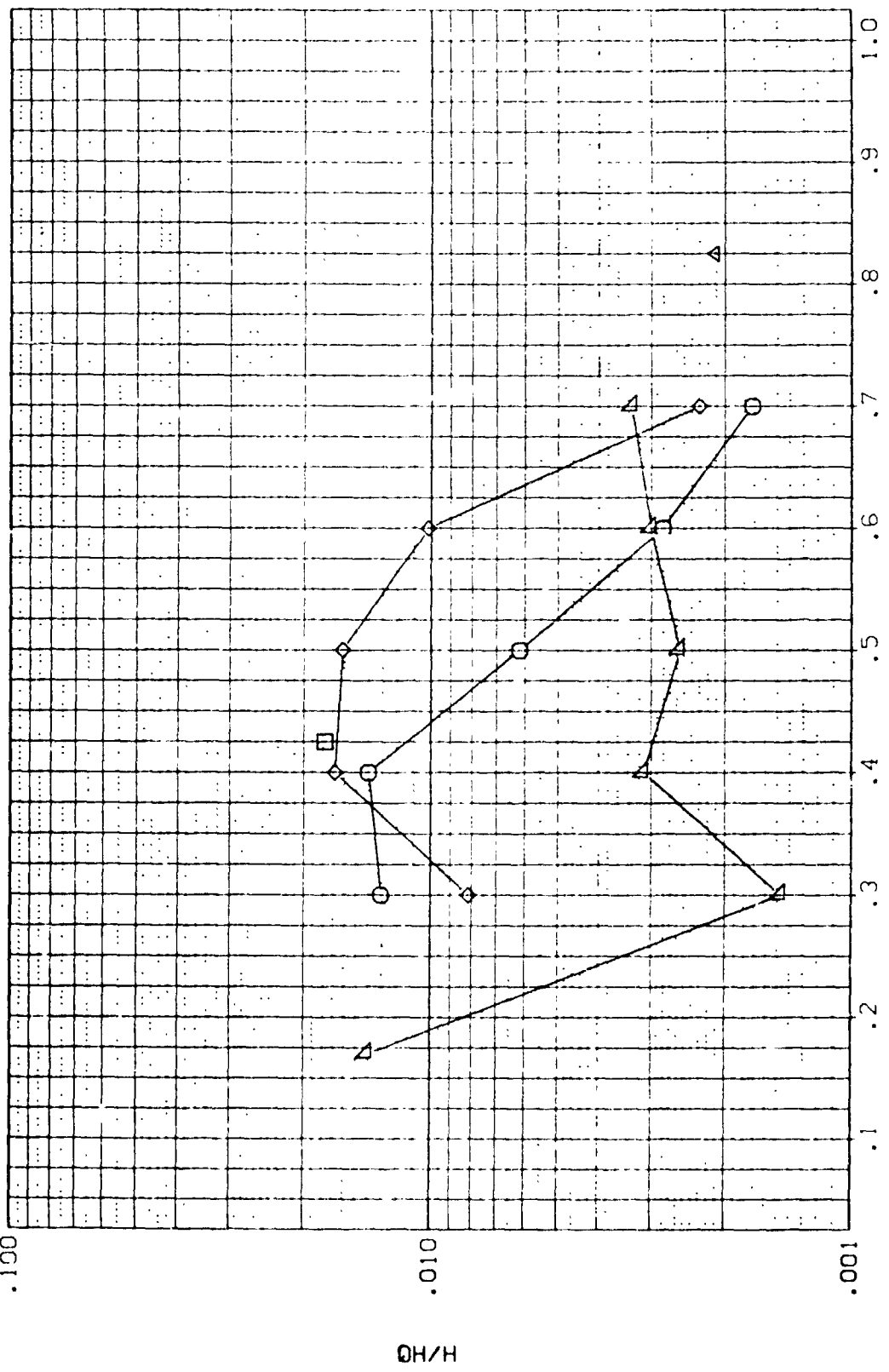


FIG 12 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLS04) OH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE

| | | | | | |
|--------|---------|--------|-------|-------|-------------------|
| SYMBOL | V.P. | HAV/HT | RN/L | ALPHA | PARAMETRIC VALUES |
| □ | 375.000 | .850 | 5.000 | MACH | 30.000 BETA .000 |
| ○ | 400.000 | | | | 8.000 |
| △ | 425.000 | | | | |
| | 465.000 | | | | |
| | 501.000 | | | | |

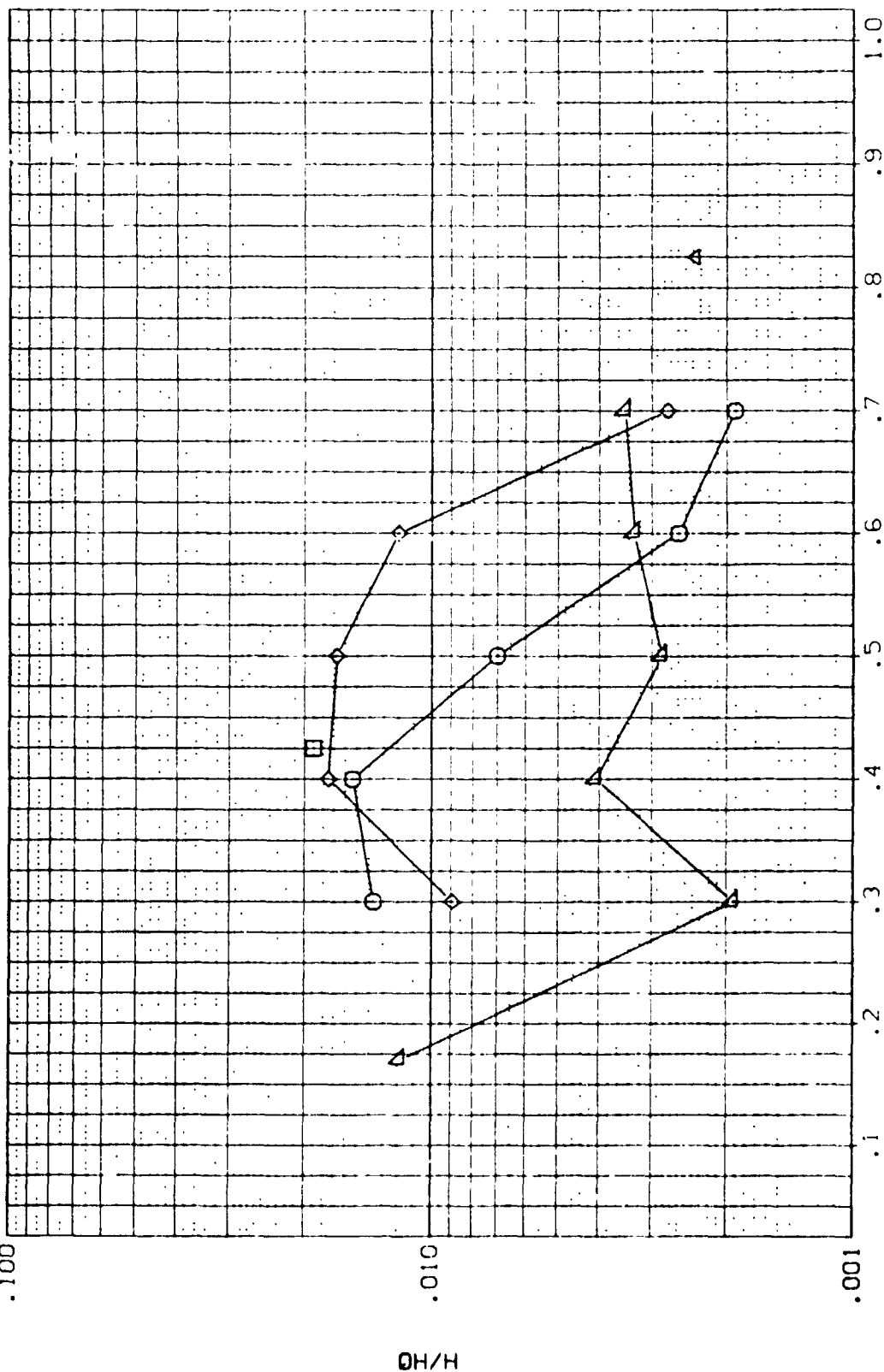


FIG 12 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
FUSELAGE UPPER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLS04) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL V.P.
 375.000
 400.000
 425.070
 465.000
 501.000

MAW/HT RN/L
 .900 5.000

PARAMETRIC VALUES
 ALPHA BETA
 HACH 8.000 .000

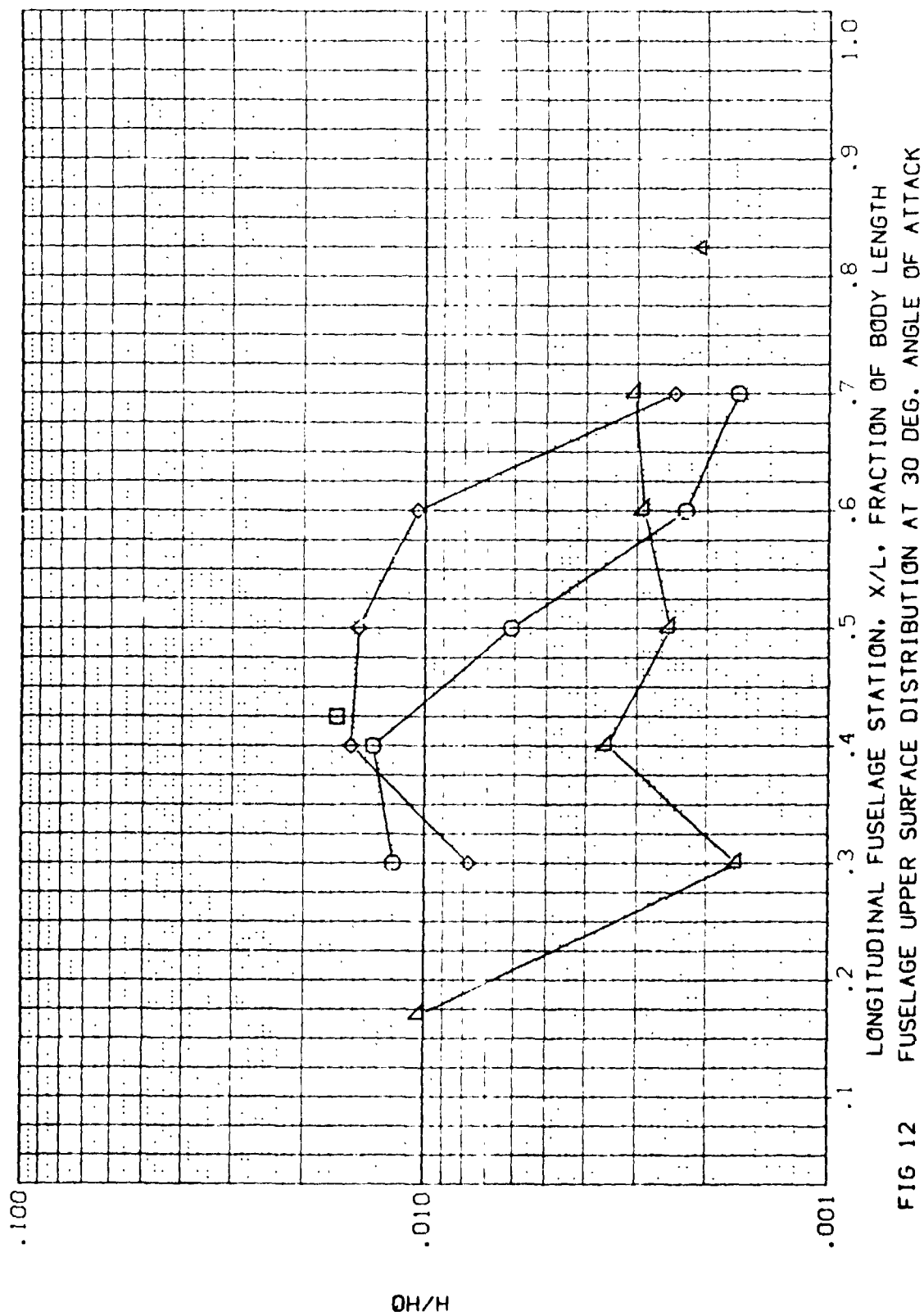
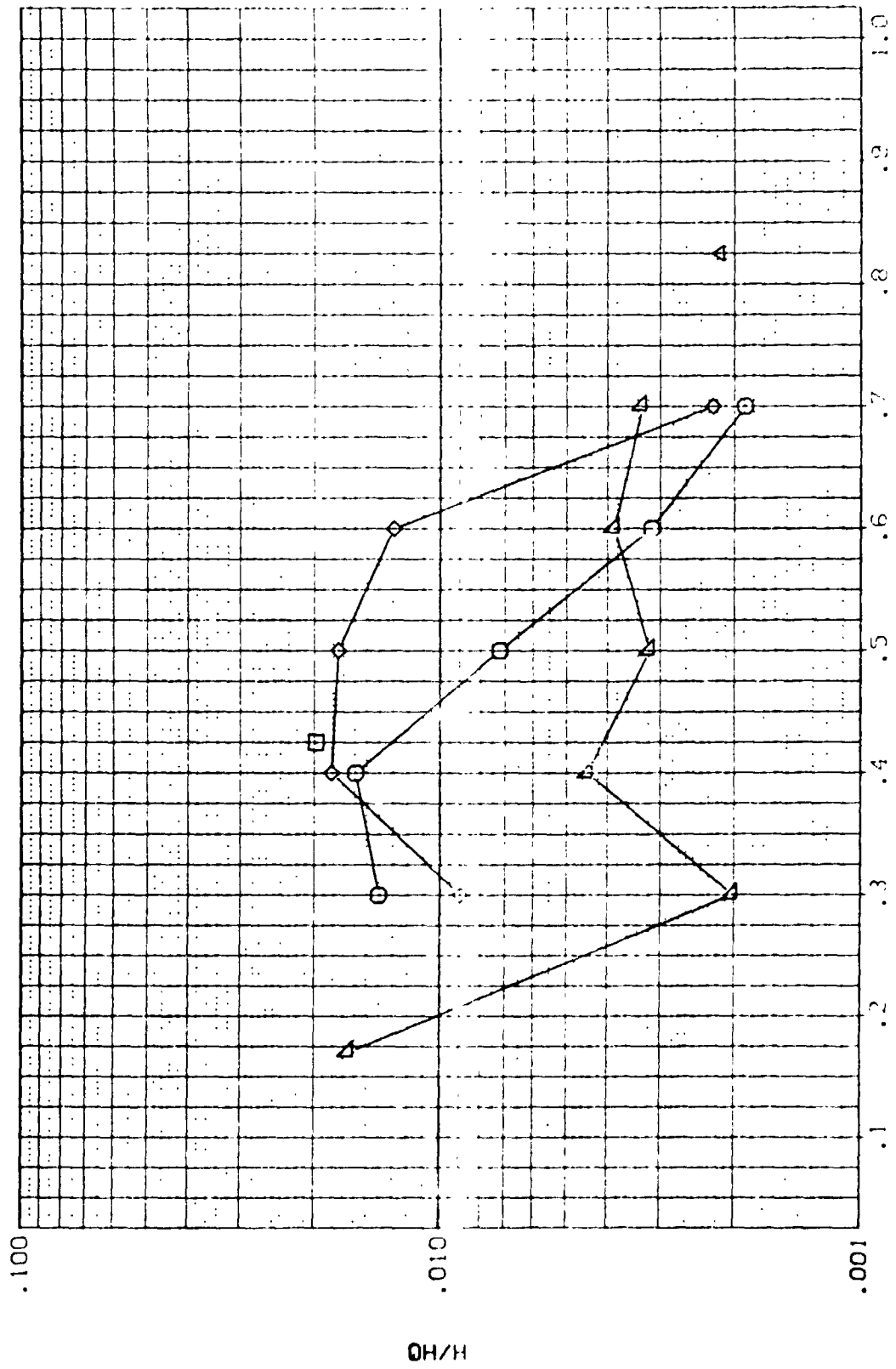


FIG 12 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(R0LSD4) OH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE
 SYMBO V.P. HAV/HT RN/L ALPHA MACH PARAMETRIC VALUES
 375.000 .850 5.500 30.000 BETA .000
 400.000
 425.000
 465.000
 501.000



LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLS04) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL V.P.
 375.000
 400.000
 425.000
 465.000
 501.000

HAW/HT .900
 RN/L 5.500

PARAMETRIC VALUES
 ALPHA MACH
 30.000 8.000
 BETA .000

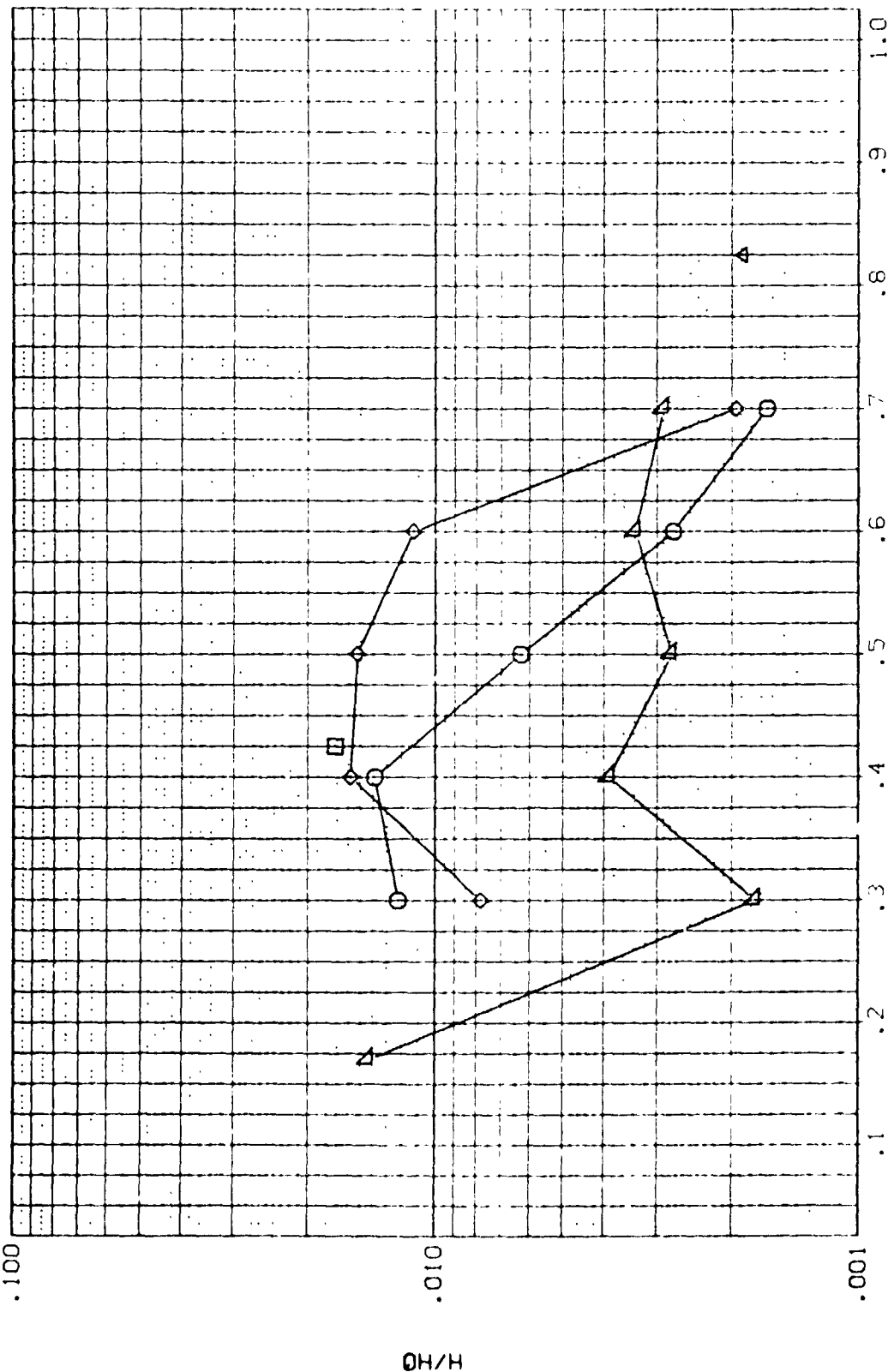


FIG 12 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLS04) OH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE

SYMBOL V.P.
 375.000
 400.000
 425.000
 465.000
 501.000

HAW/HT .850
 RN/L 6.000

ALPHA
 MACH

PARAMETRIC VALUES
 30.000 BETA
 8.000 .000

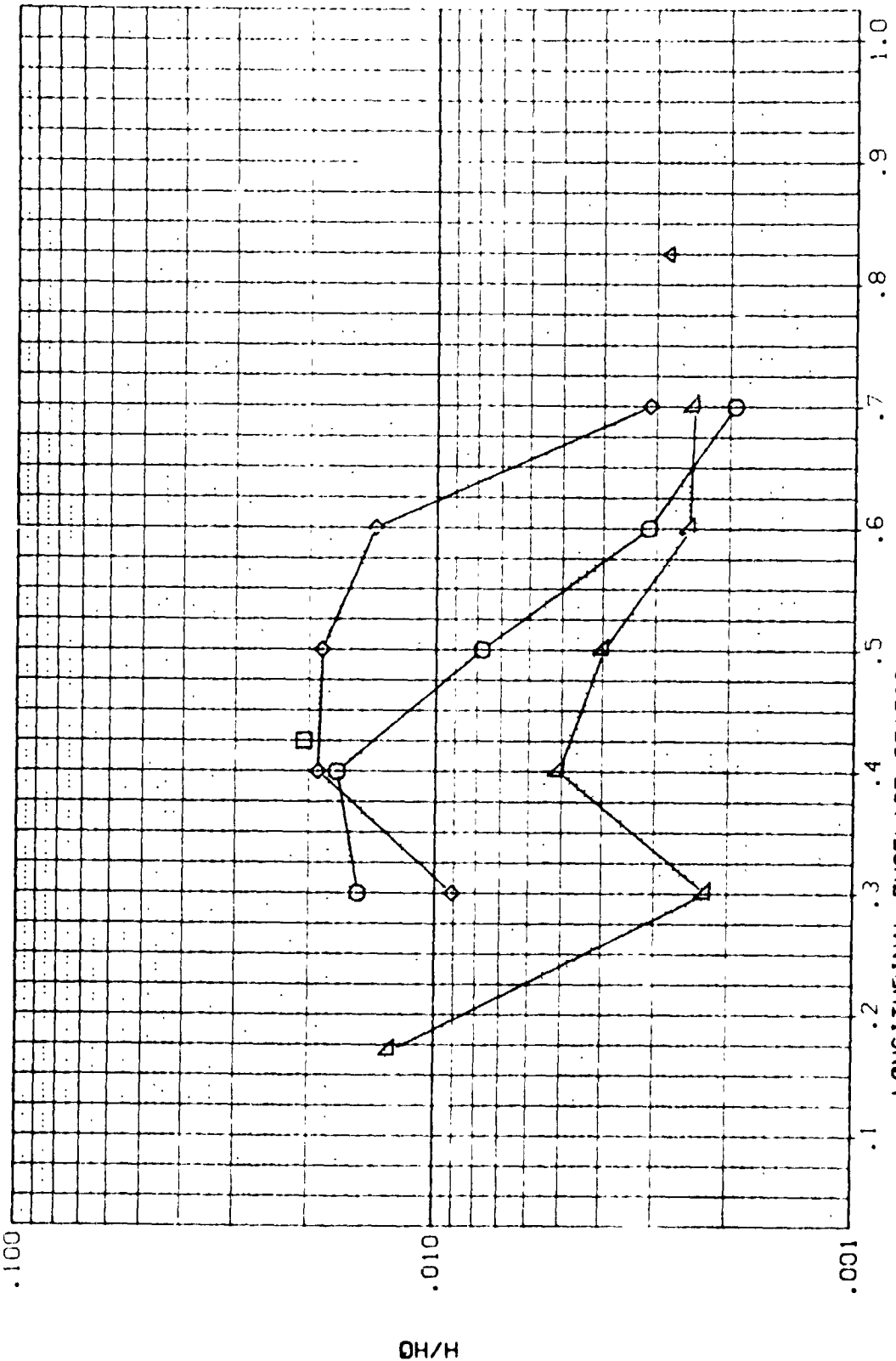


FIG 12 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLS04) OH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE

SYMBOL V.P.
 375.000
 400.000
 425.000
 465.000
 501.000

NAV/H? .900
 RV/L 6.000

PARAMETRIC VALUES
 ALPHA MACH 30.000
 BETA 8.000

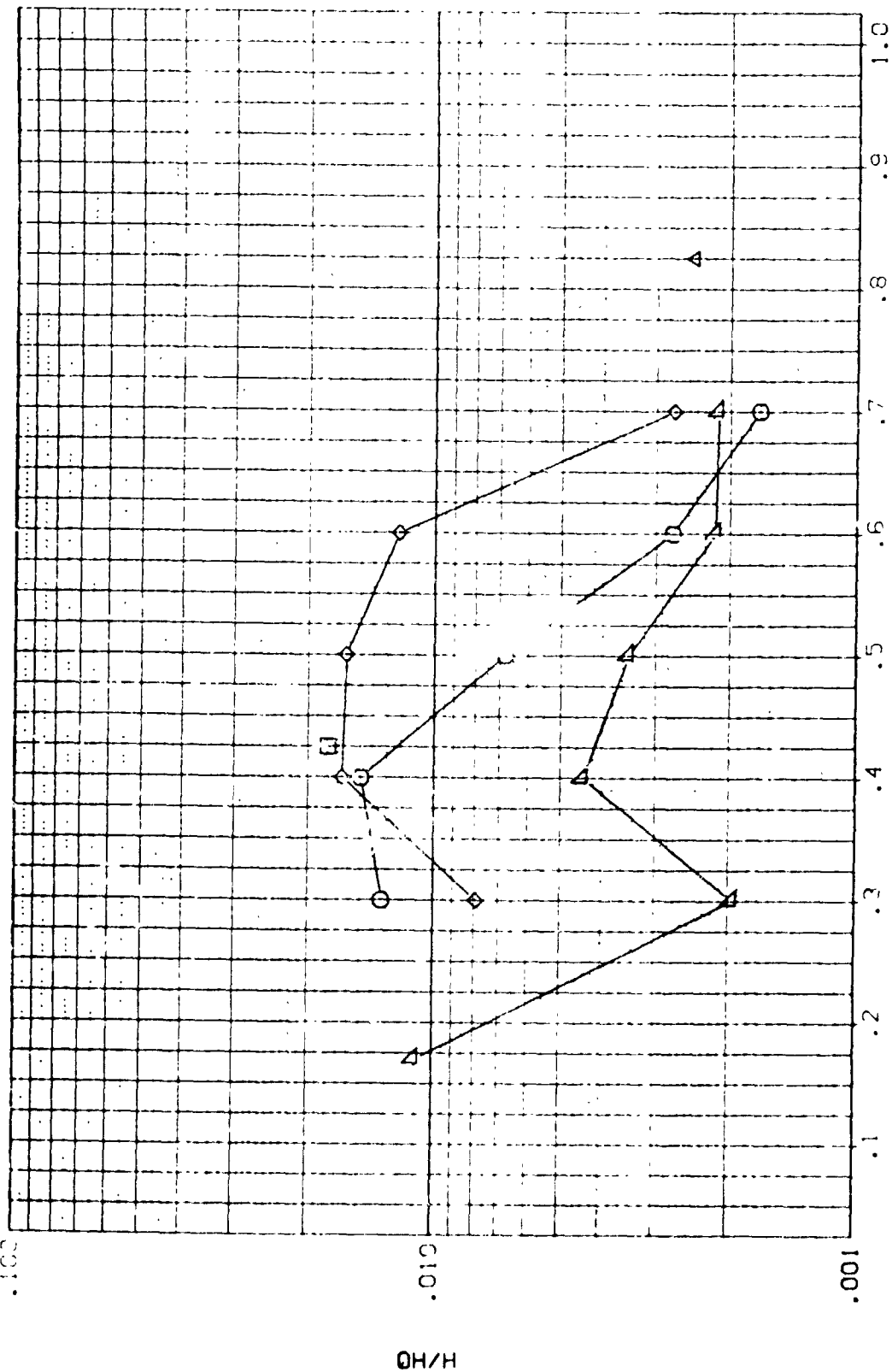


FIG 12 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

(R0LS04)
SYMBOL

W.P.
375.000
400.000
425.000
465.000
501.000

MAV/MT
.850

RN/L
8.000

ALPHA
MACH

PARAMETRIC VALUES
30.000
8.000
BETA
.000

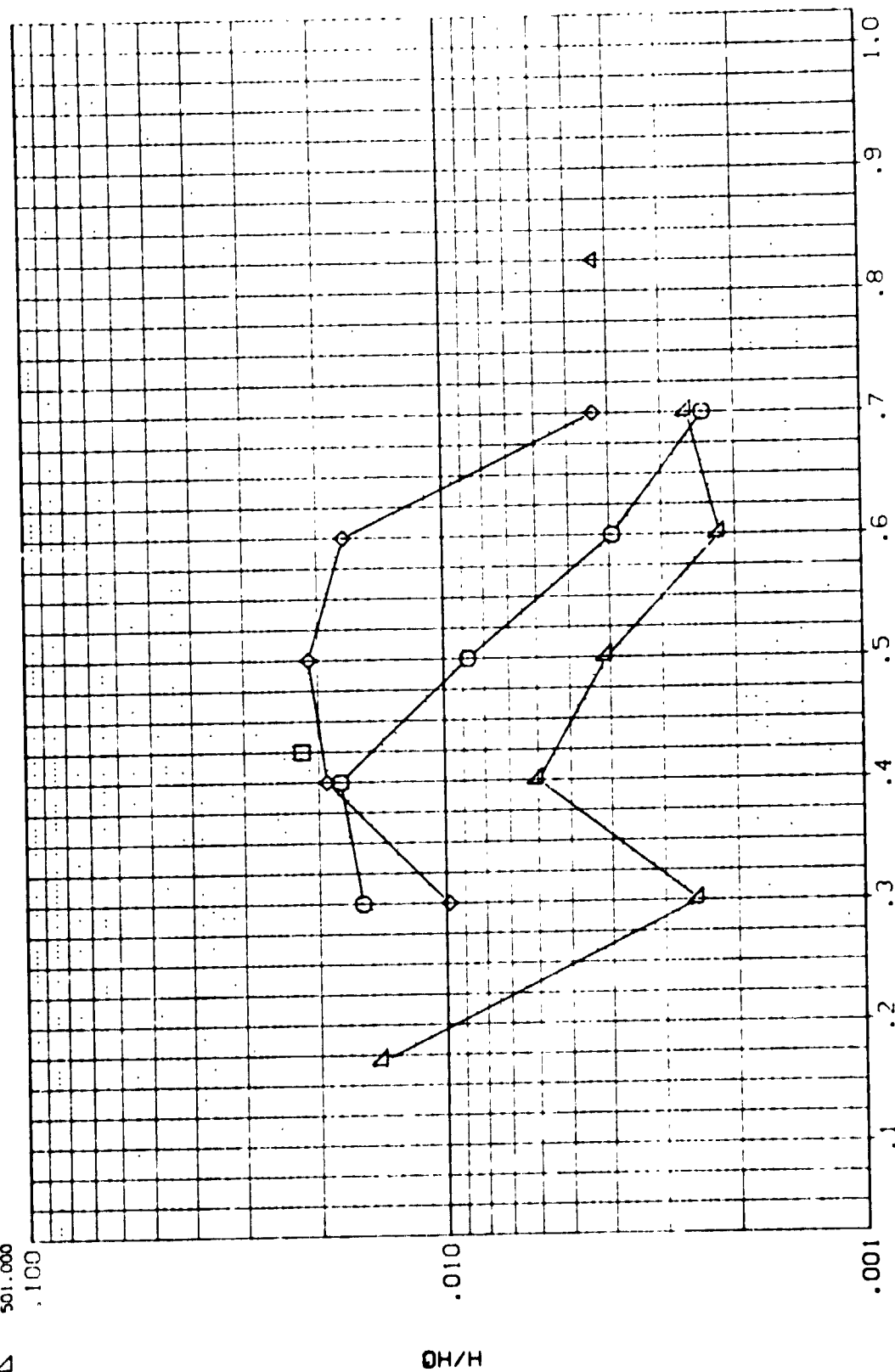


FIG 12 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE UPPER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLS04) OH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE

SY-95L V.P.
375.000
400.000
425.000
465.000
501.000

MAW/MT .900
RN/L 8.000

ALPHA
MACH

PARAMETRIC VALUES
30.000 BETA
8.000
.000

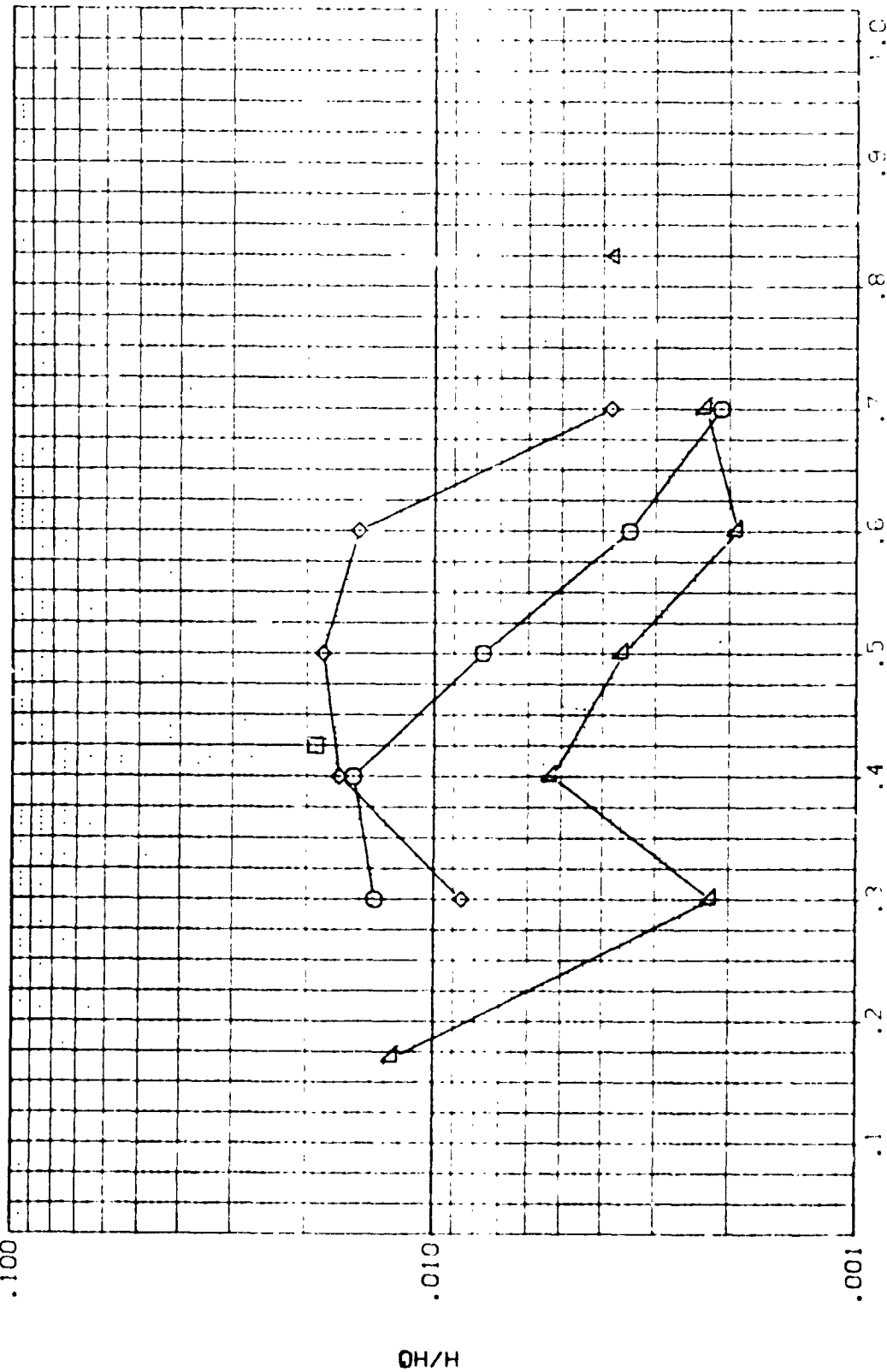


FIG 12 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
FUSELAGE UPPER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(RQLS04) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

| | | | | | |
|--------|---------|--------|--------|-------|-------------------|
| SYMBOL | W.P. | MAV/HT | RN/L | ALPHA | PARAMETRIC VALUES |
| □ | 375.000 | .850 | 10.000 | MACH | 30.000 BETA |
| ○ | 400.000 | | | | 8.000 |
| △ | 425.000 | | | | |
| × | 465.000 | | | | |
| ◇ | 501.000 | | | | |

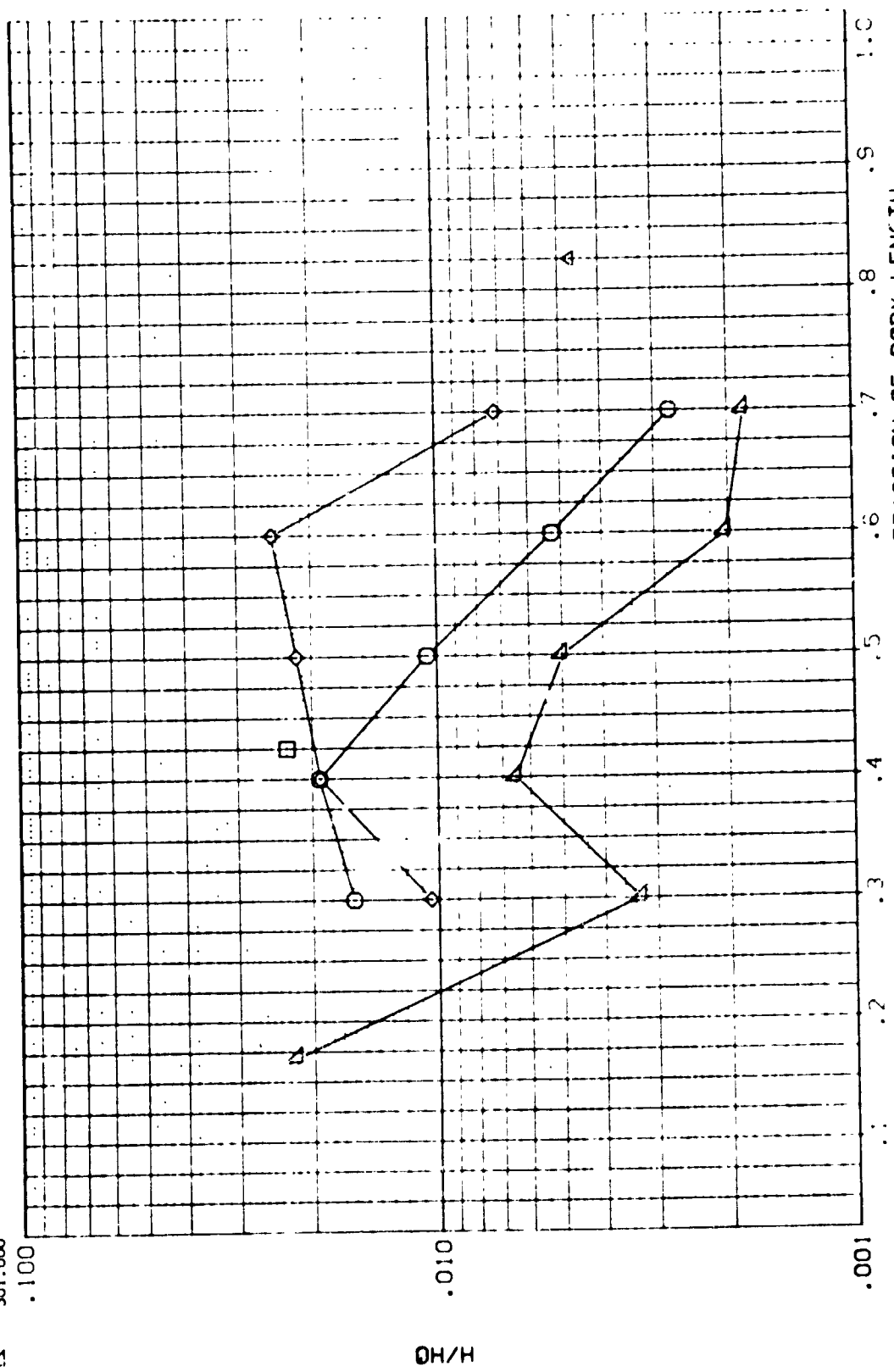


FIG 12 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE UPPER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(R0LS04) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL
 U.P.
 375.000
 400.000
 425.000
 450.000
 501.000

MAW/MT
 .900
 10.000

ALPHA
 MACH

PARAMETRIC VALUES
 30.000
 8.000
 .000

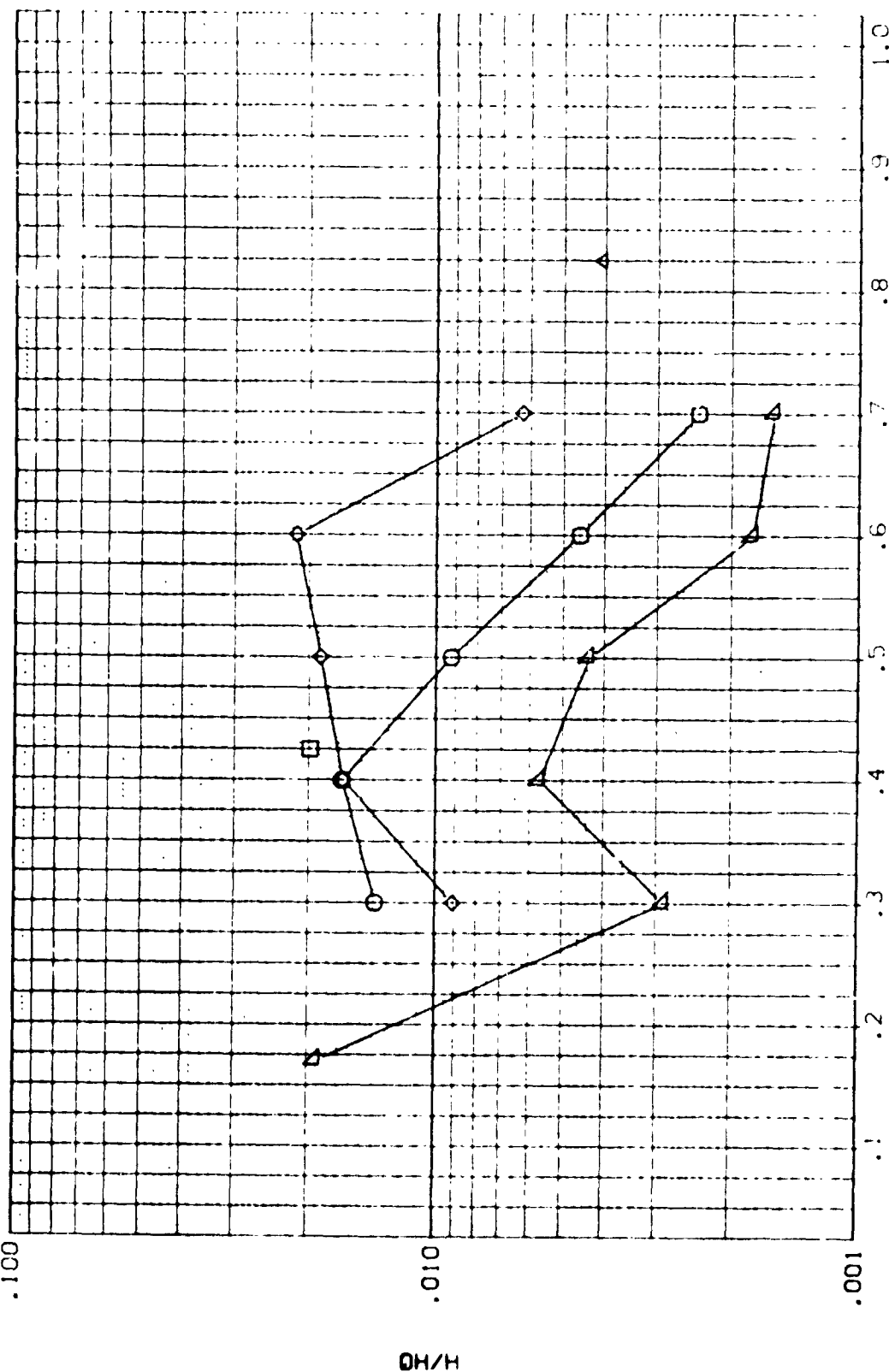


FIG 12 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 30 DEG. ANGLE OF ATTACK

(PQL805) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

PARAMETRIC VALUES
ALPHA 35.000
MACH 8.000
BETA .000

SYMBOL B.P. 117.000
HAB/HIT .850
RN/L 1.000

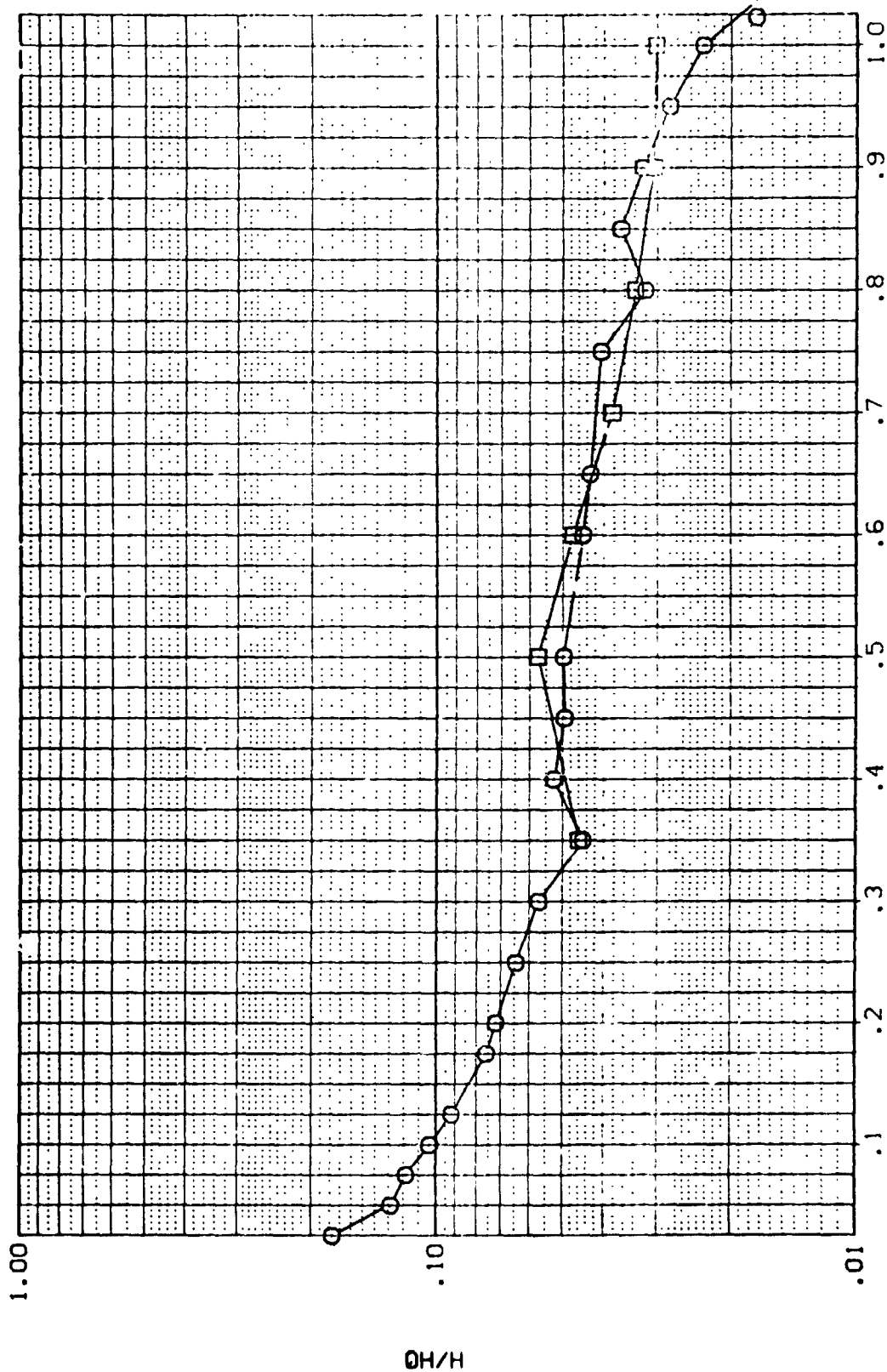


FIG 13 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(R0LB05) 0H14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P.
117,000

NAV/HT RN/L
.900 1.000

ALPHA
MACH

PARAMETRIC VALUES
35.000 BETA
8.000 .000

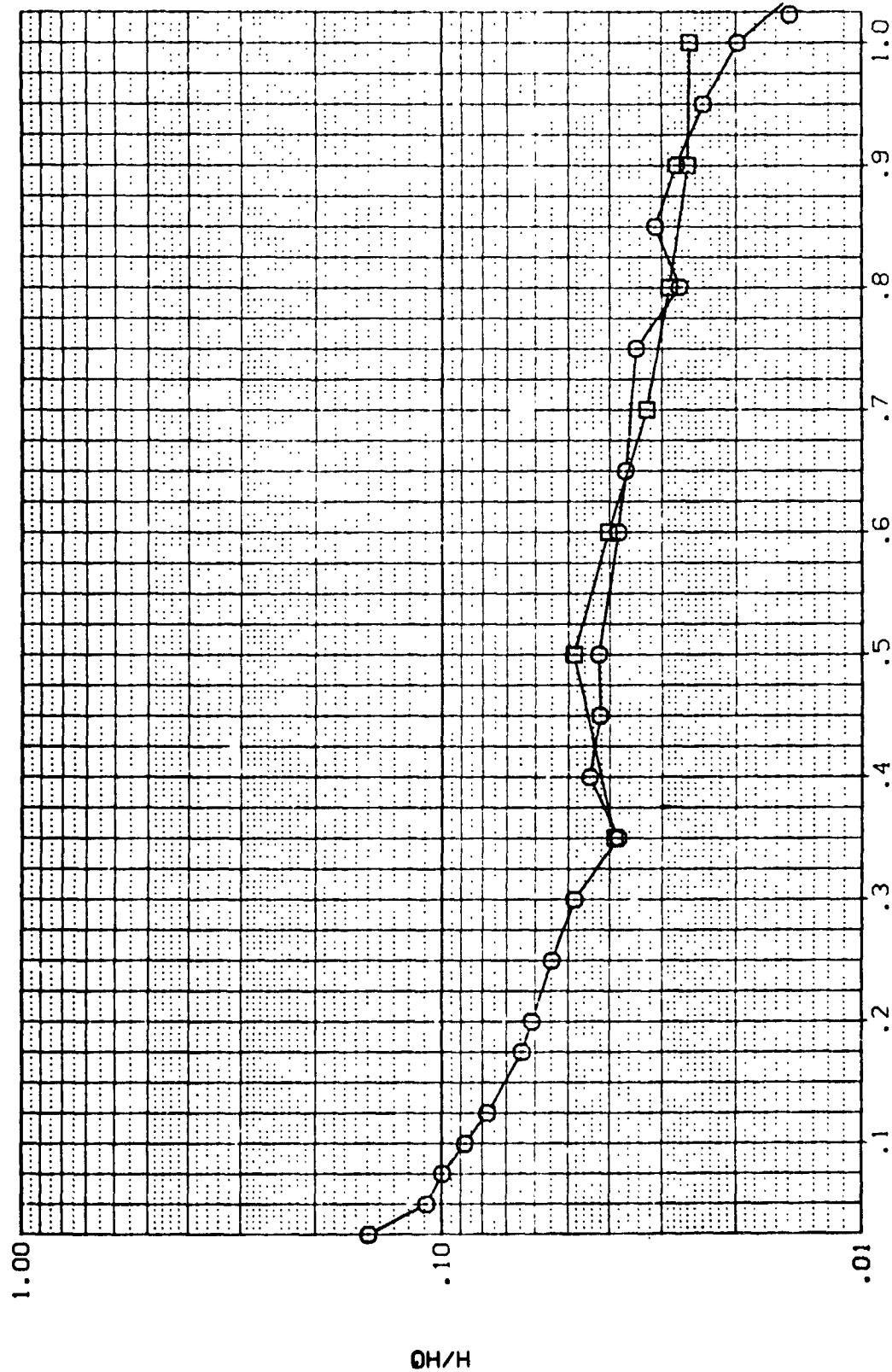


FIG 13 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(RQLB05) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL 8.P. HAW/HT RN/L
 117.000 .850 3.000

PARAMETRIC VALUES
 ALPHA MACH 35.000 8.000 BETA .000

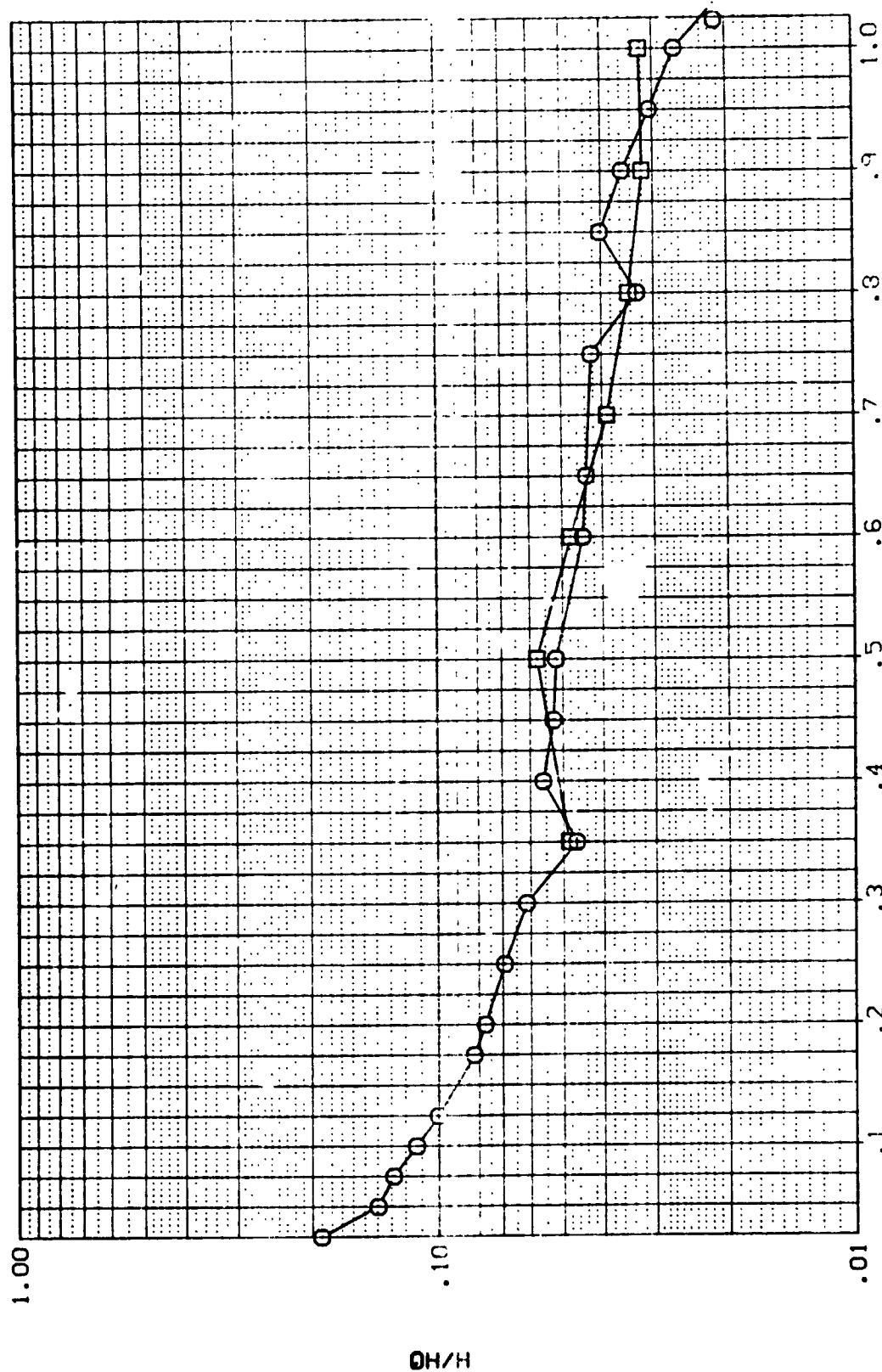


FIG 13 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
 FUSELAGE LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(RQLB05) 0H14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SVR2C B.P. HA/HI: RN/L 3.000 ALPHA MACH 35.000 BETA 8.000 .000

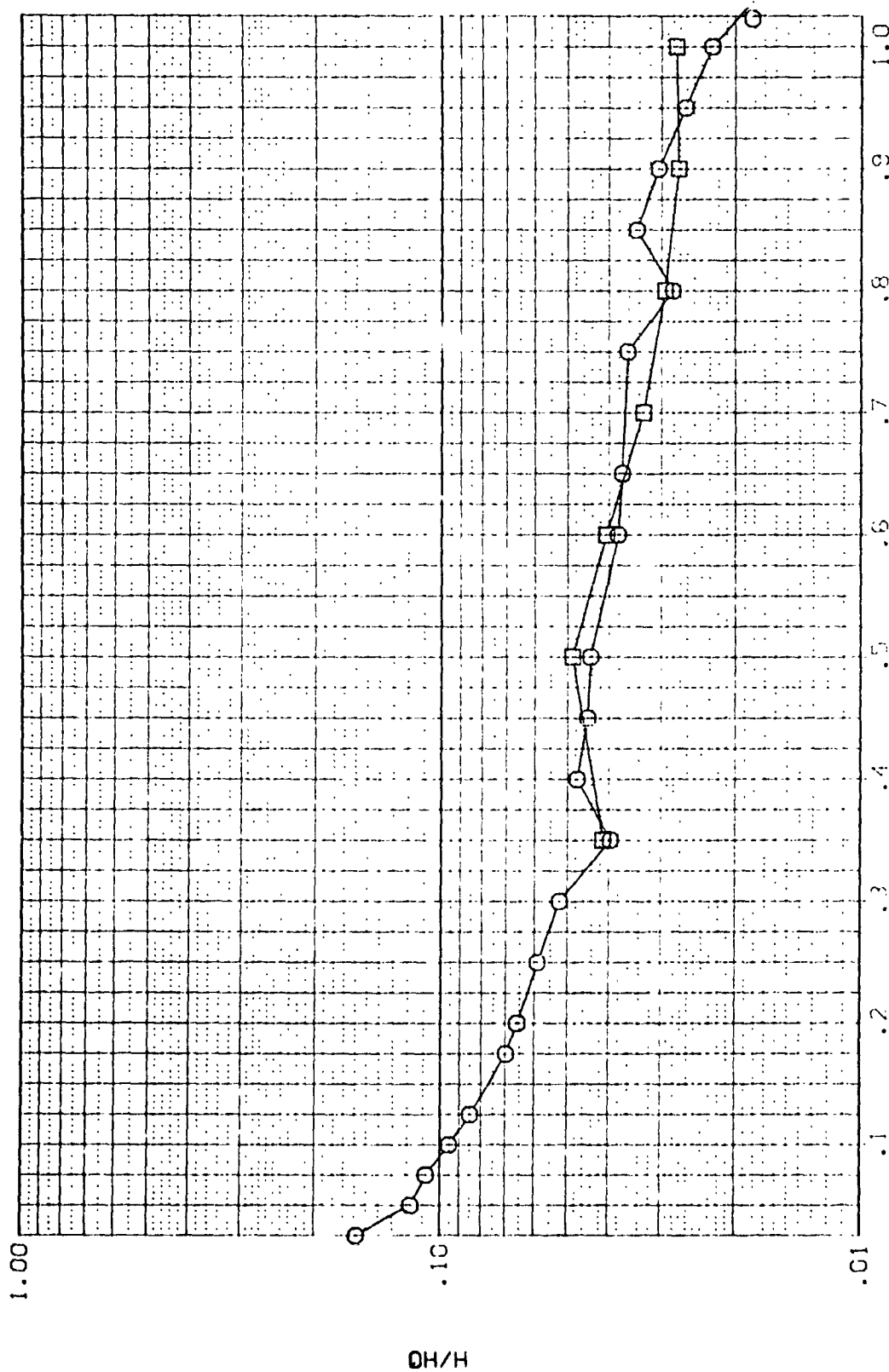


FIG 13 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(RQLB05) 0H14 022C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P.
1:7.000

WAX/HT .85C
PN/L 4.000

PARAMETRIC VALUES
ALPHA MACH
35.000 BETA
8.000 .000

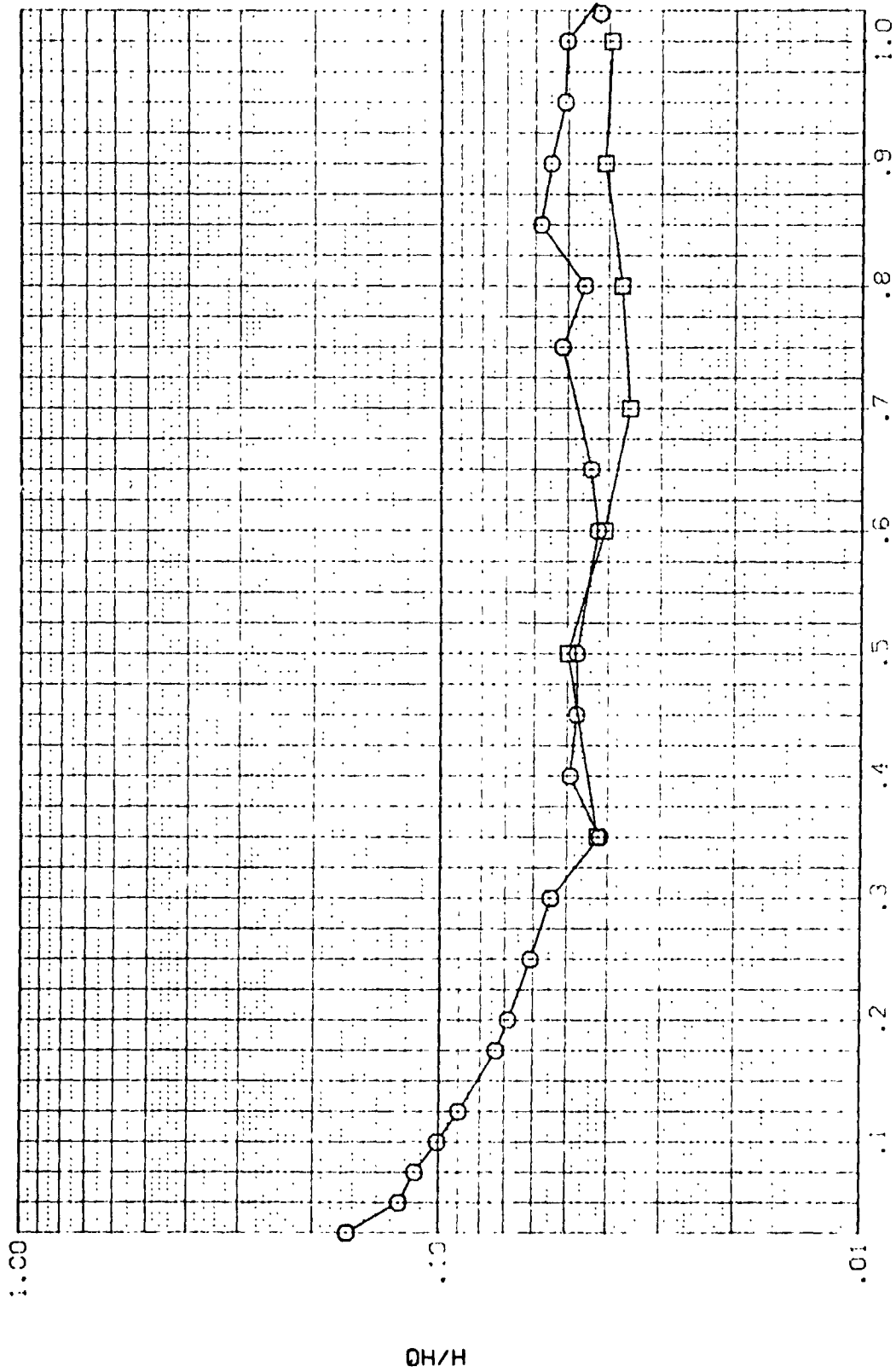


FIG 13 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(RQLB05) 0H14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. 1:7.000

HAIR/LIN .900 4.000

PARAMETRIC VALUES
ALPHA MACH 35.000
PETA 8.000 .300

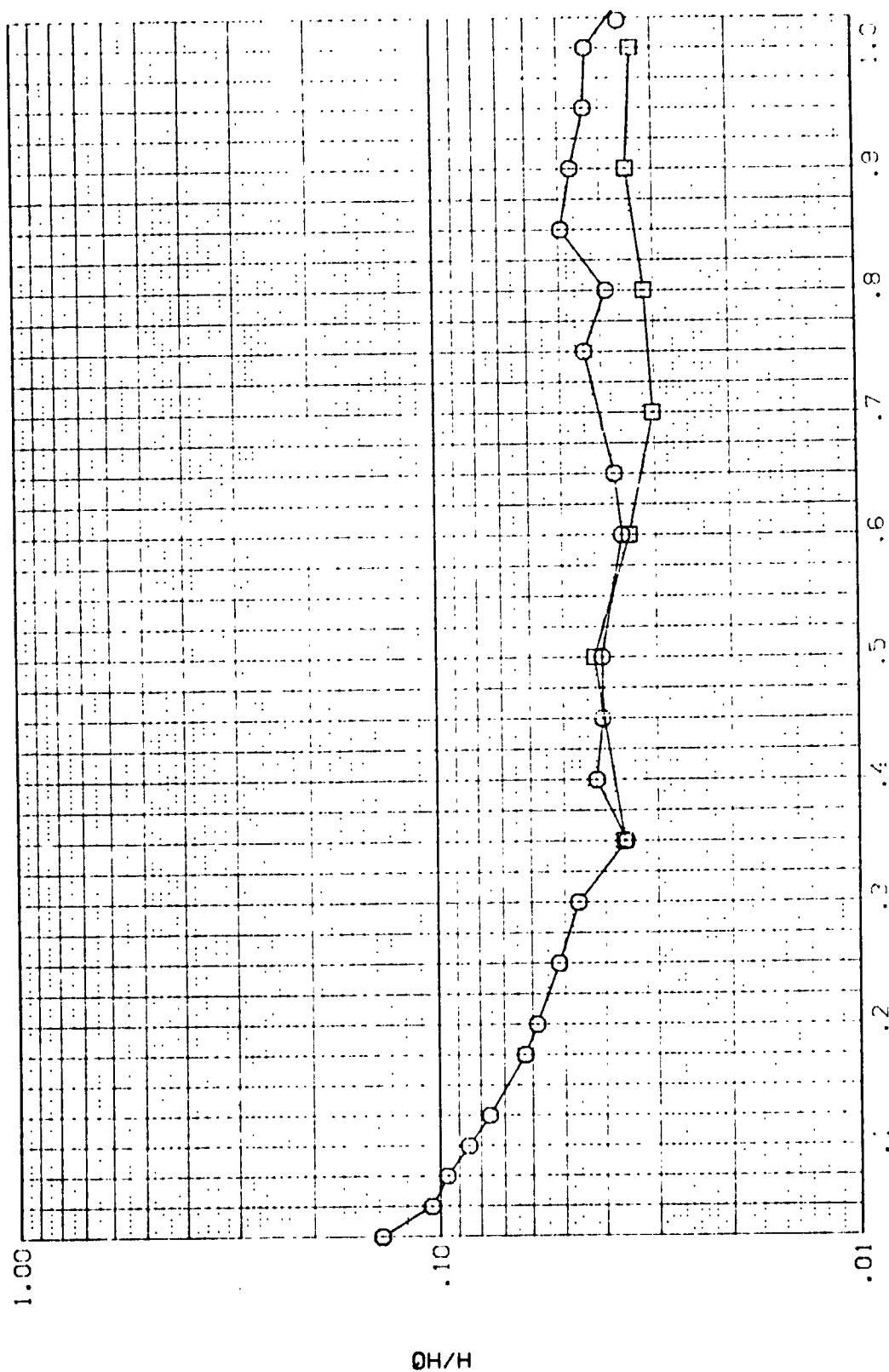


FIG 13 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(ROLB05) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. 117.000

HA/H 0.850 PV/L 5.000

PARAMETRIC VALUES
ALPHA 35.000
BETA 8.000
MACH .000

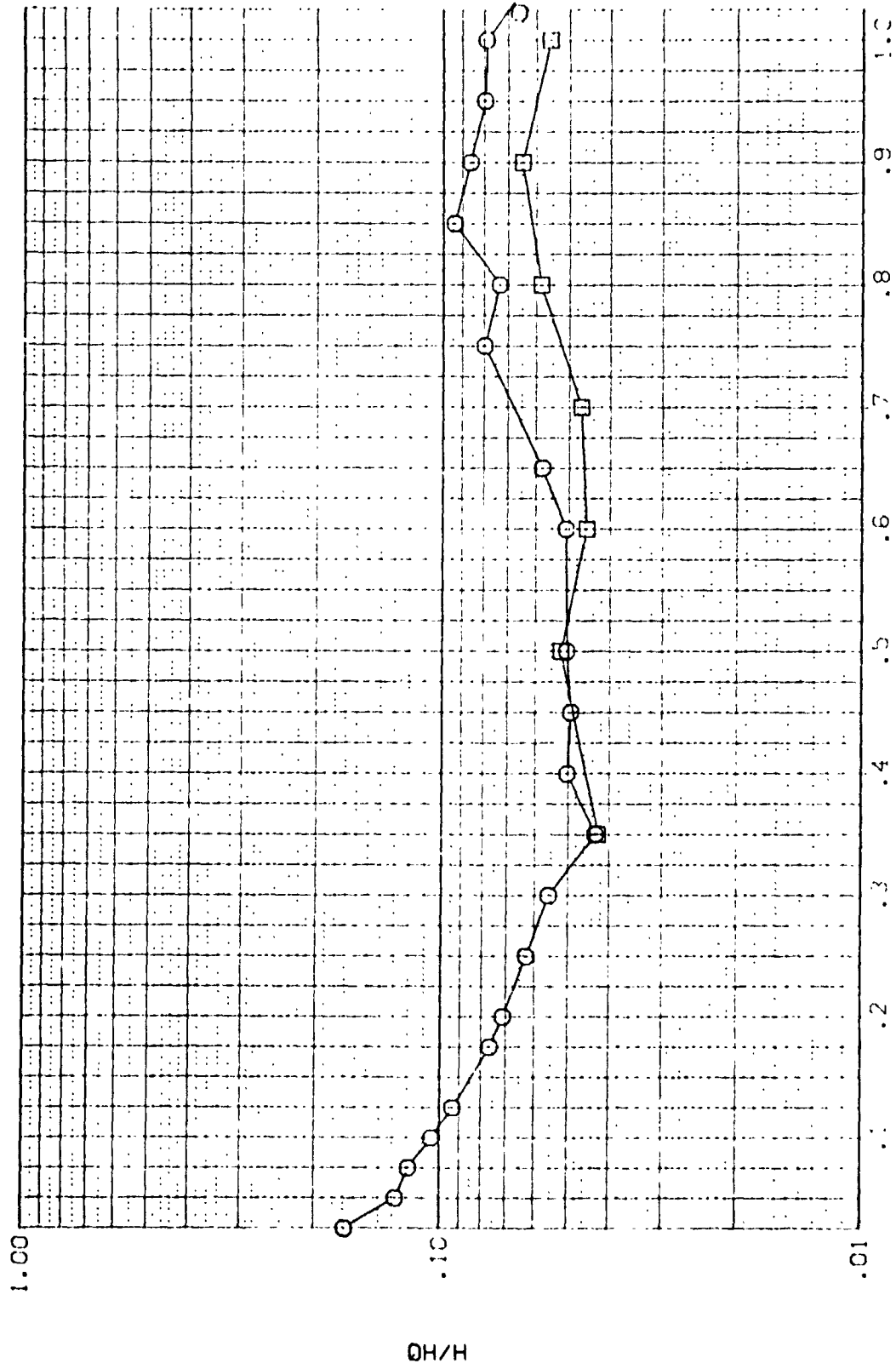


FIG 13 LONGITUDINAL FUSELAGE STATION. X/L, FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(R0LB05) 0H14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL B.P. HAW/H₀ P₀/P_∞ ALPHA MACH PARAMETRIC VALUES
 0 .003 .900 5.000 35.000 BETA .000
 117.000

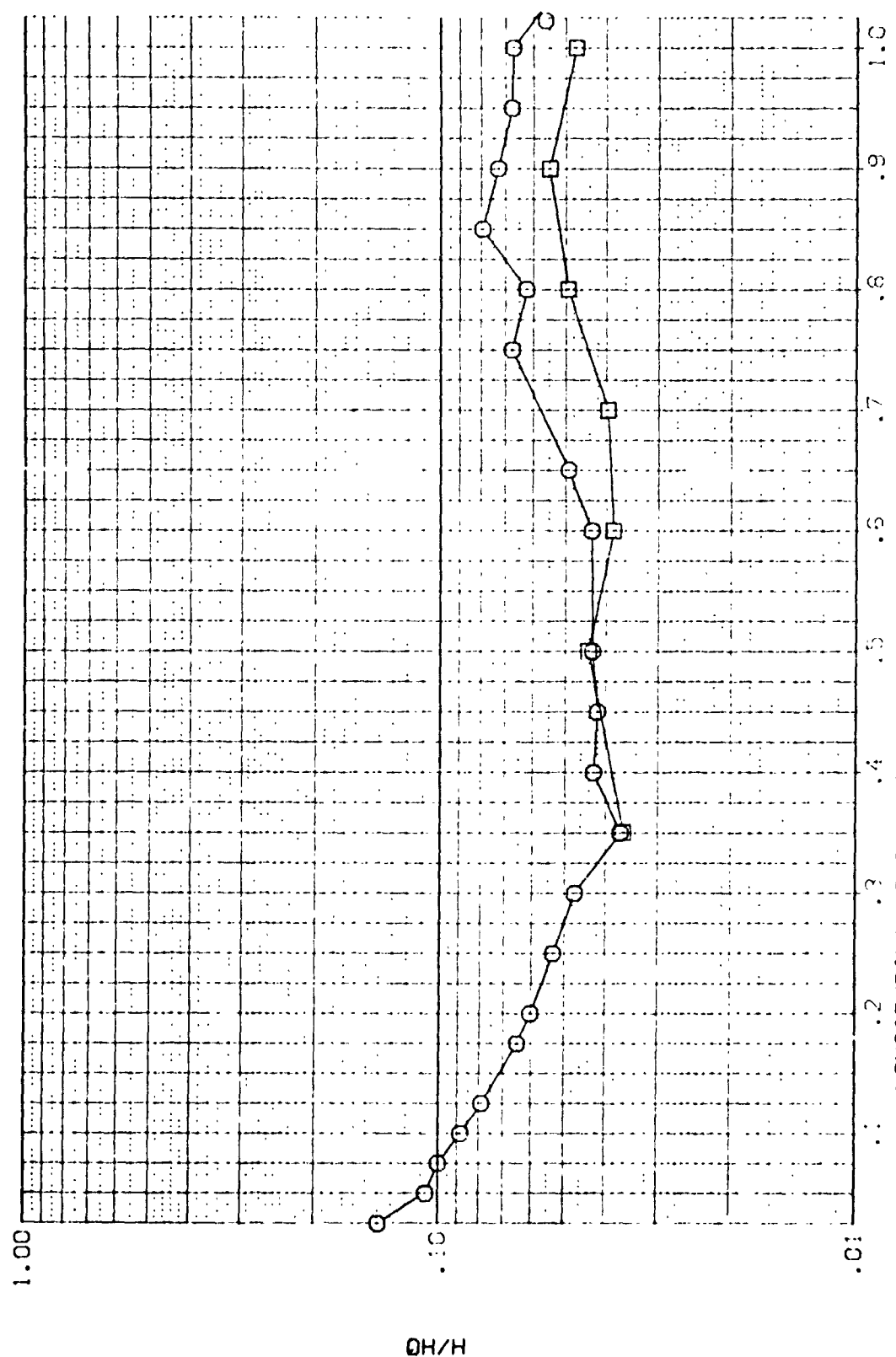


FIG 13 FUSELAGE LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

| PARAMETRIC VALUES | BETA |
|-------------------|------|
| 35.000 | |
| 8.000 | |

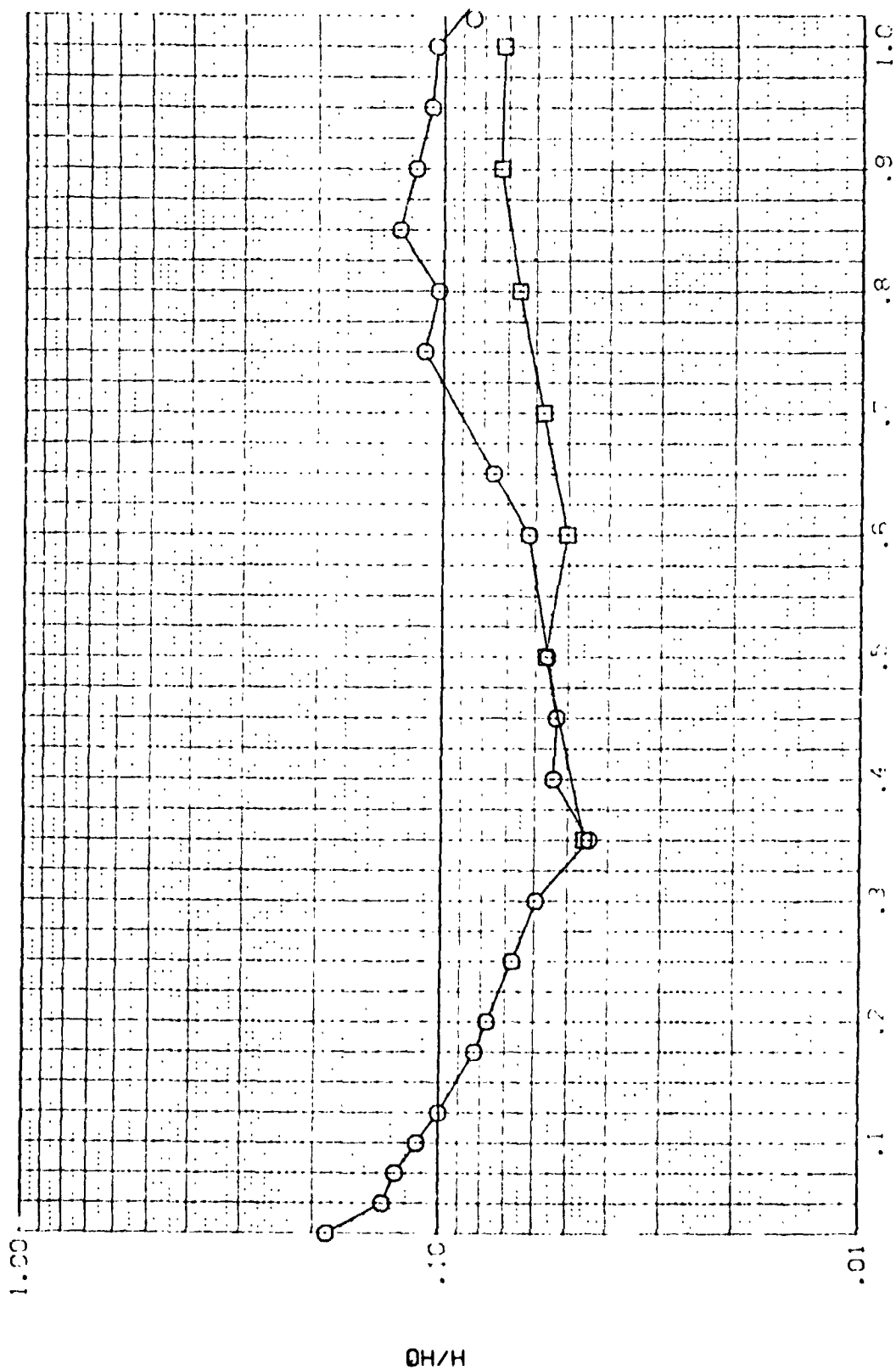


FIG 13
LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(RQLB05) 0H14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE

SVBOL 3.0
1:7.000

14.0/147
900 6.000

PARAMETRIC VALUES
ALPHA 35.000
MACH 8.000
BETA .000

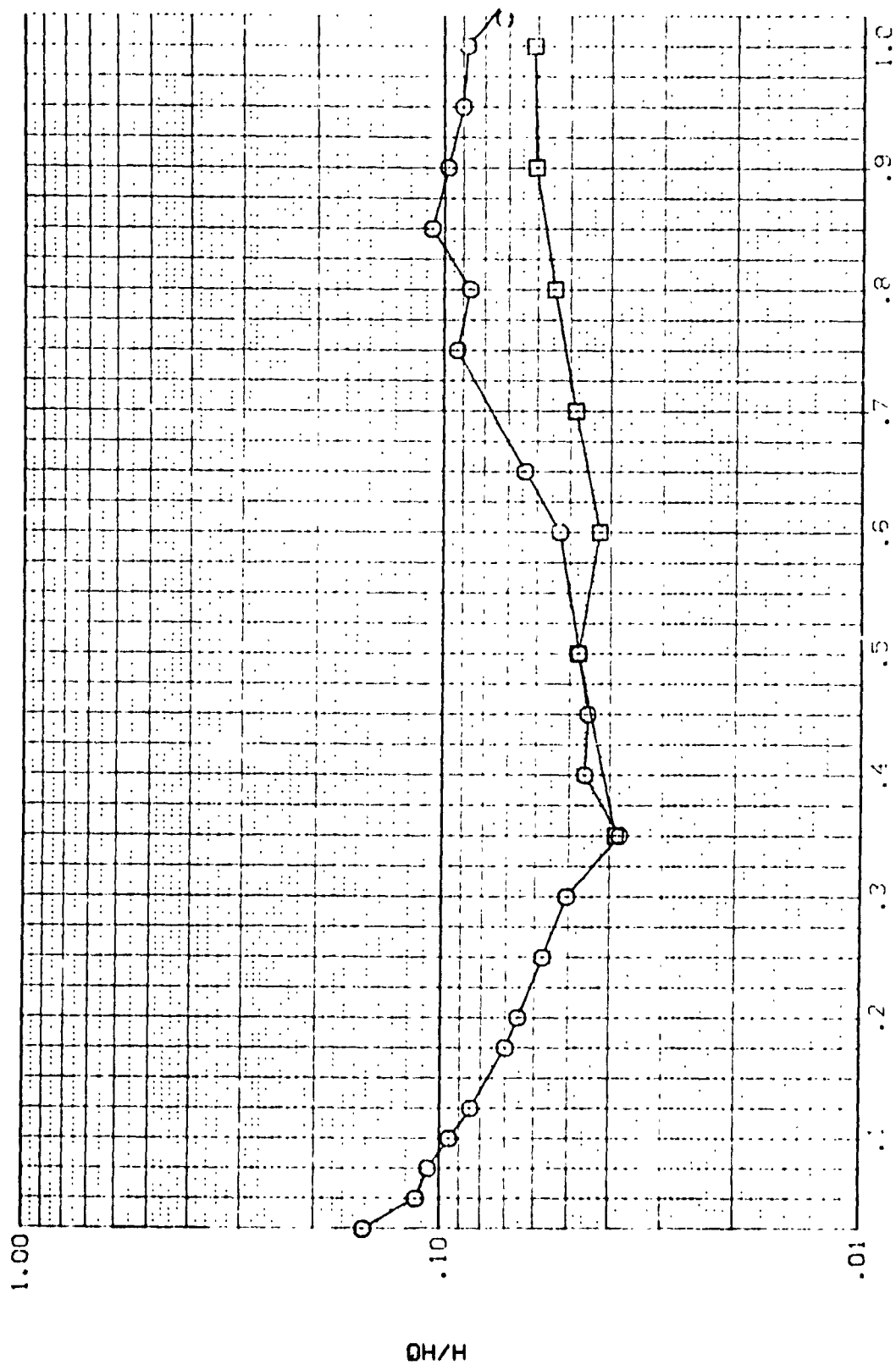


FIG 13 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(RQL805) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYNOPSIS B.P. 117.000
 HAW/HI 8.000
 .850

PARAMETRIC VALUES
 ALPHA 35.000
 MACH 8.000
 BETA .000

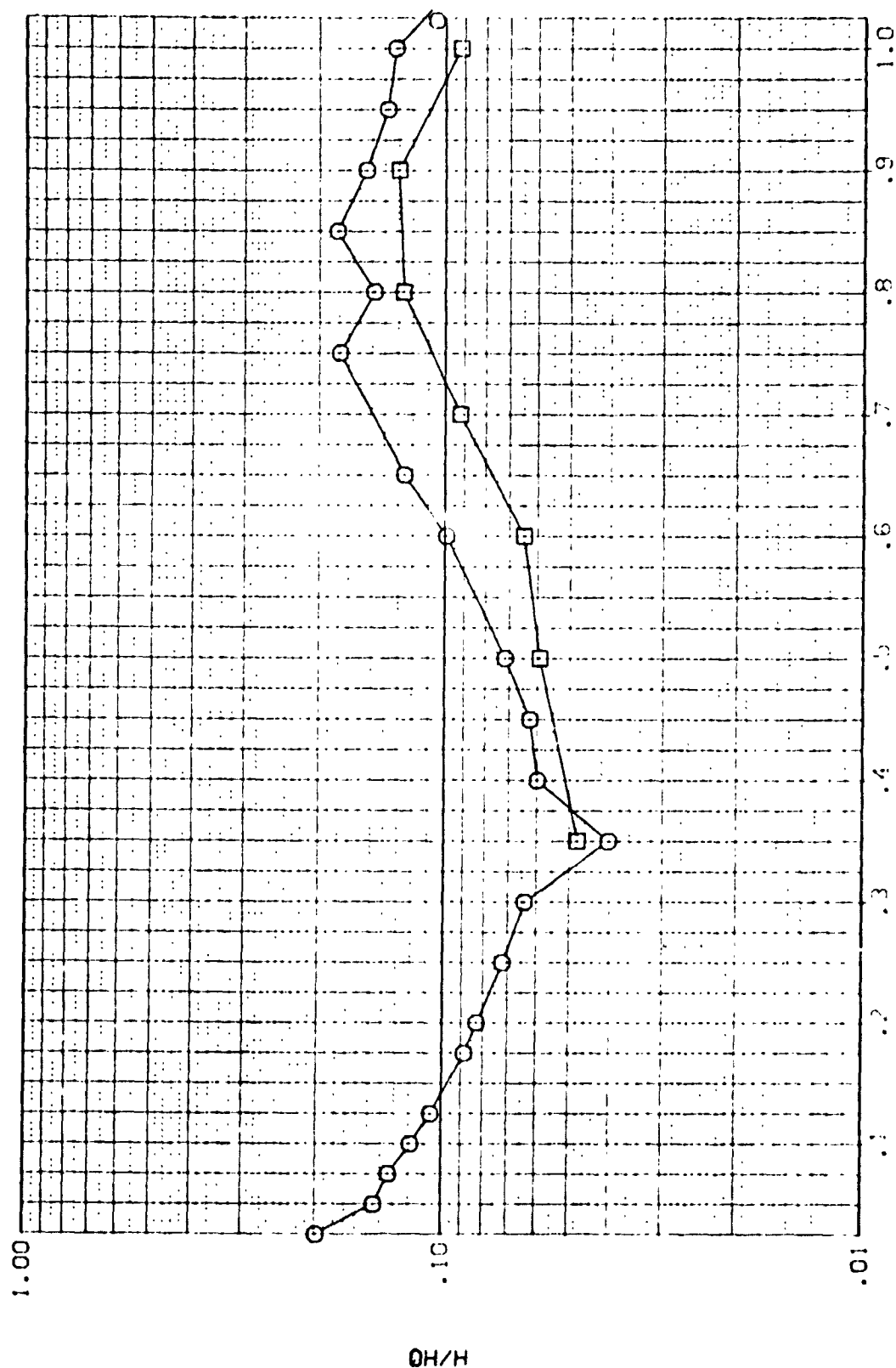


FIG 13 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
 FUSELAGE LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(RQL805) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

PARAMETRIC VALUES
 35.000 BETA
 8.000

ALPHA
 MACH

8.000
 .900

117.000

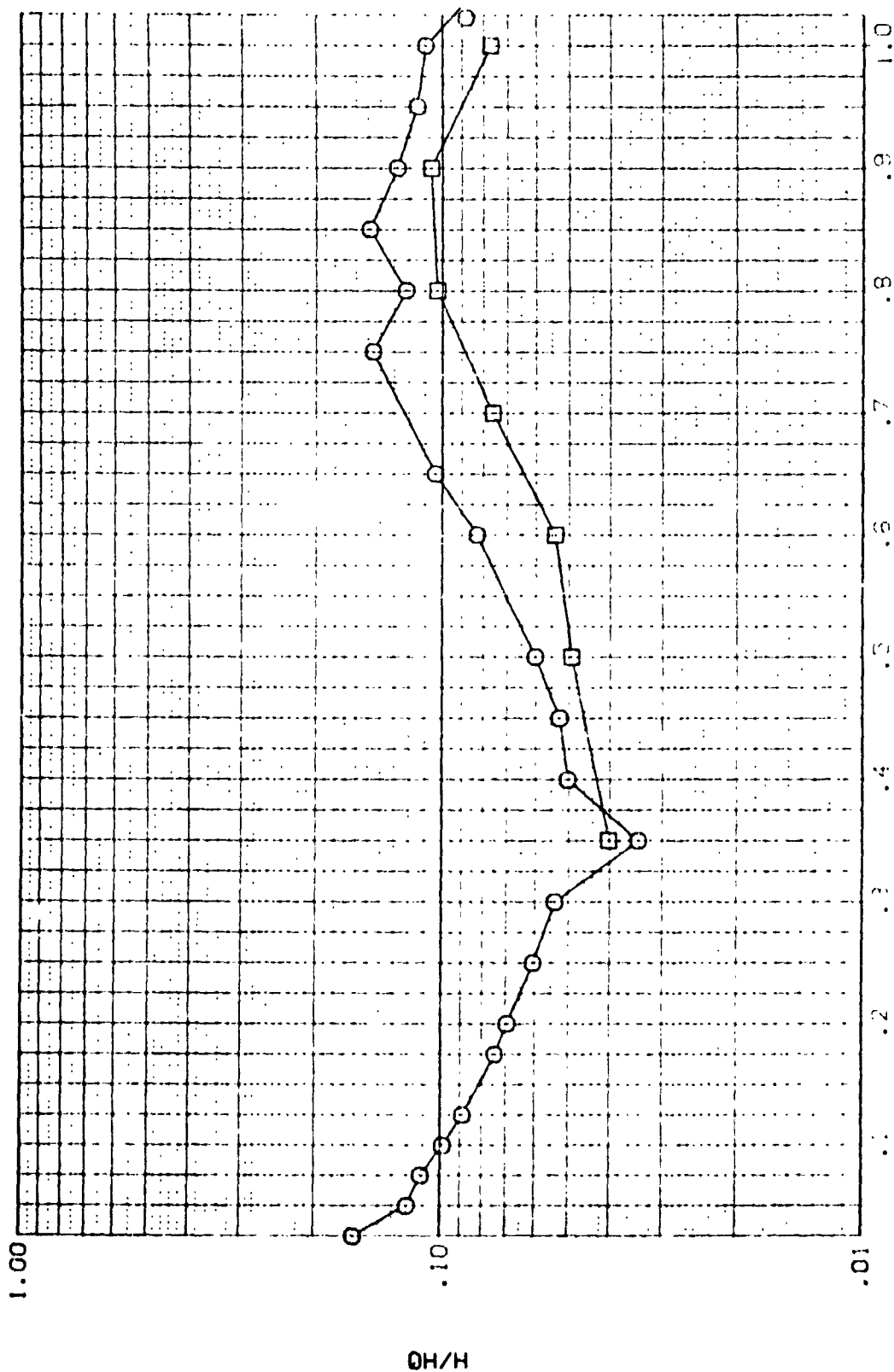


FIG 13 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(RQLB05) OH14 822C7F5M4V7W111 FUSELAGE LOWER SURFACE

SV93L B.P. 117.000

W44/L4 10.000

ALPHA
W4CM

PARAMETRIC VALUES
35.000 BETA
6.000

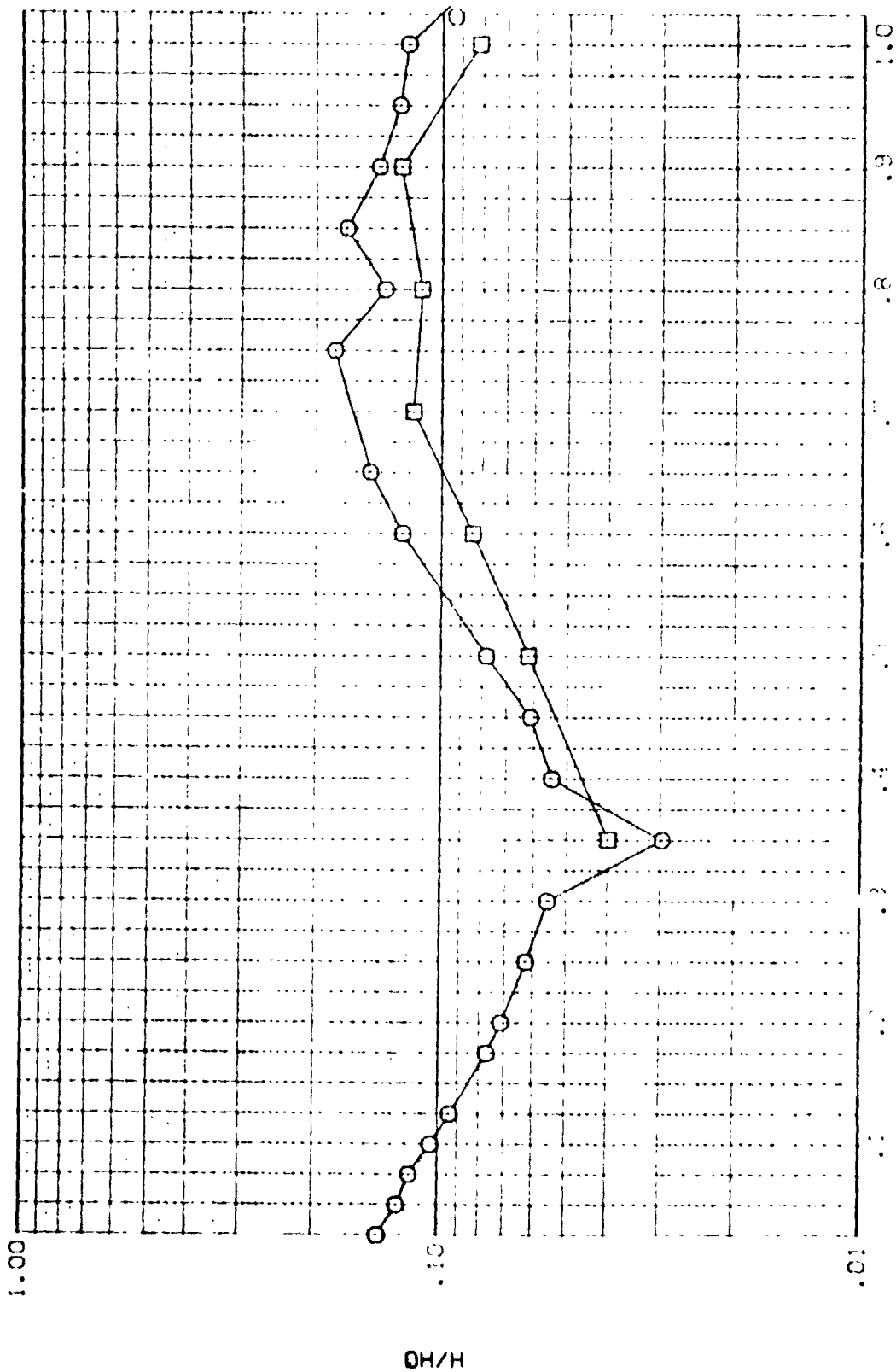


FIG 13 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(ROLW05) 0H14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL 24/B
-400
-500
-600
-800

PARAMETRIC VALUES
35.000
8.000
BETA
MACH

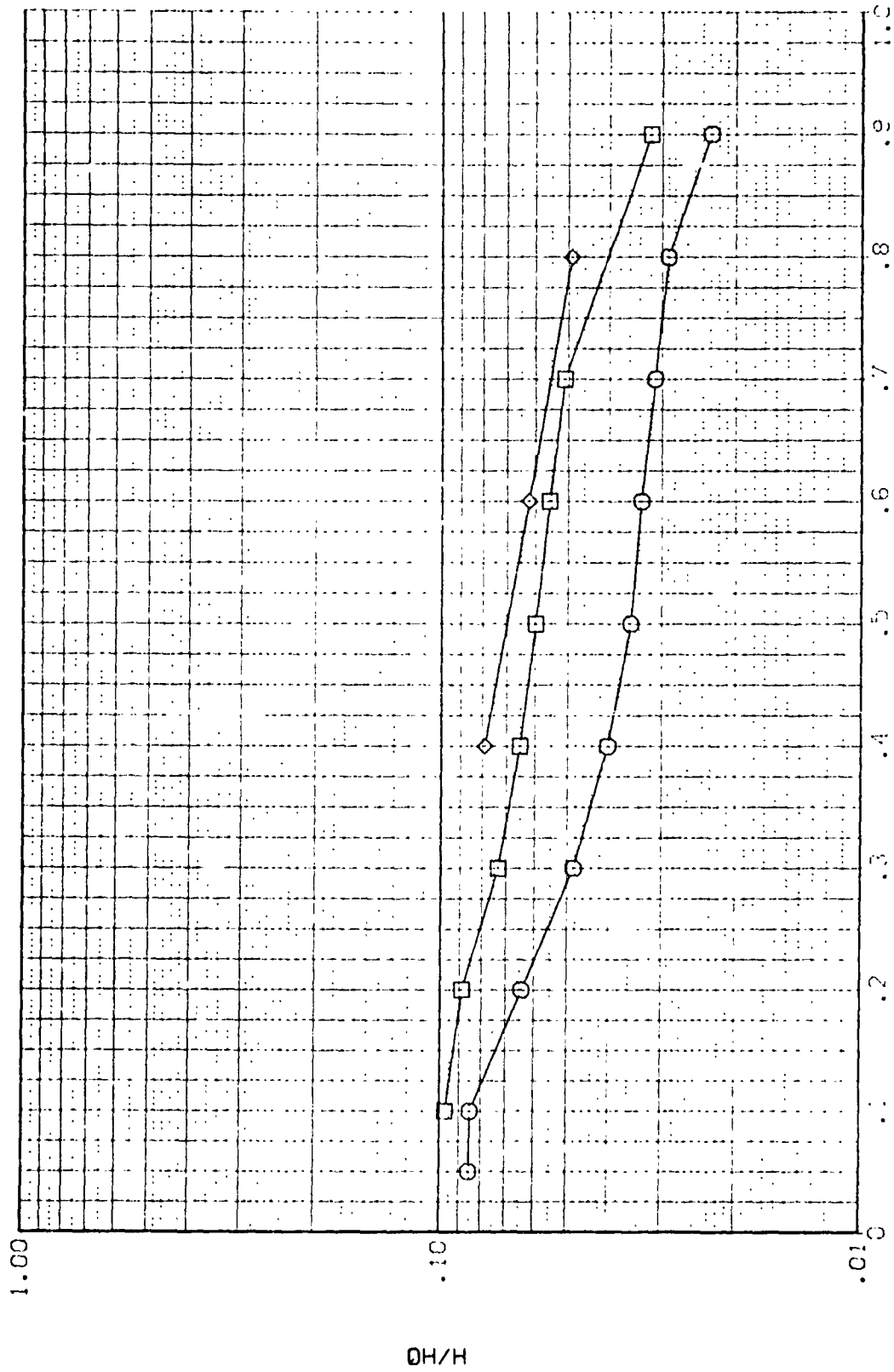


FIG 14 WING LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(RQLW05) 0H14 B22C7FSM4V7W111 WING LOWER SURFACE

SVBCL 2V/B
 .400
 .600
 .800

RA/H* .900
 RN/L 1.000

ALPHA
 MACH

PARAMETRIC VALUES
 35.000 BETA
 8.000 .000

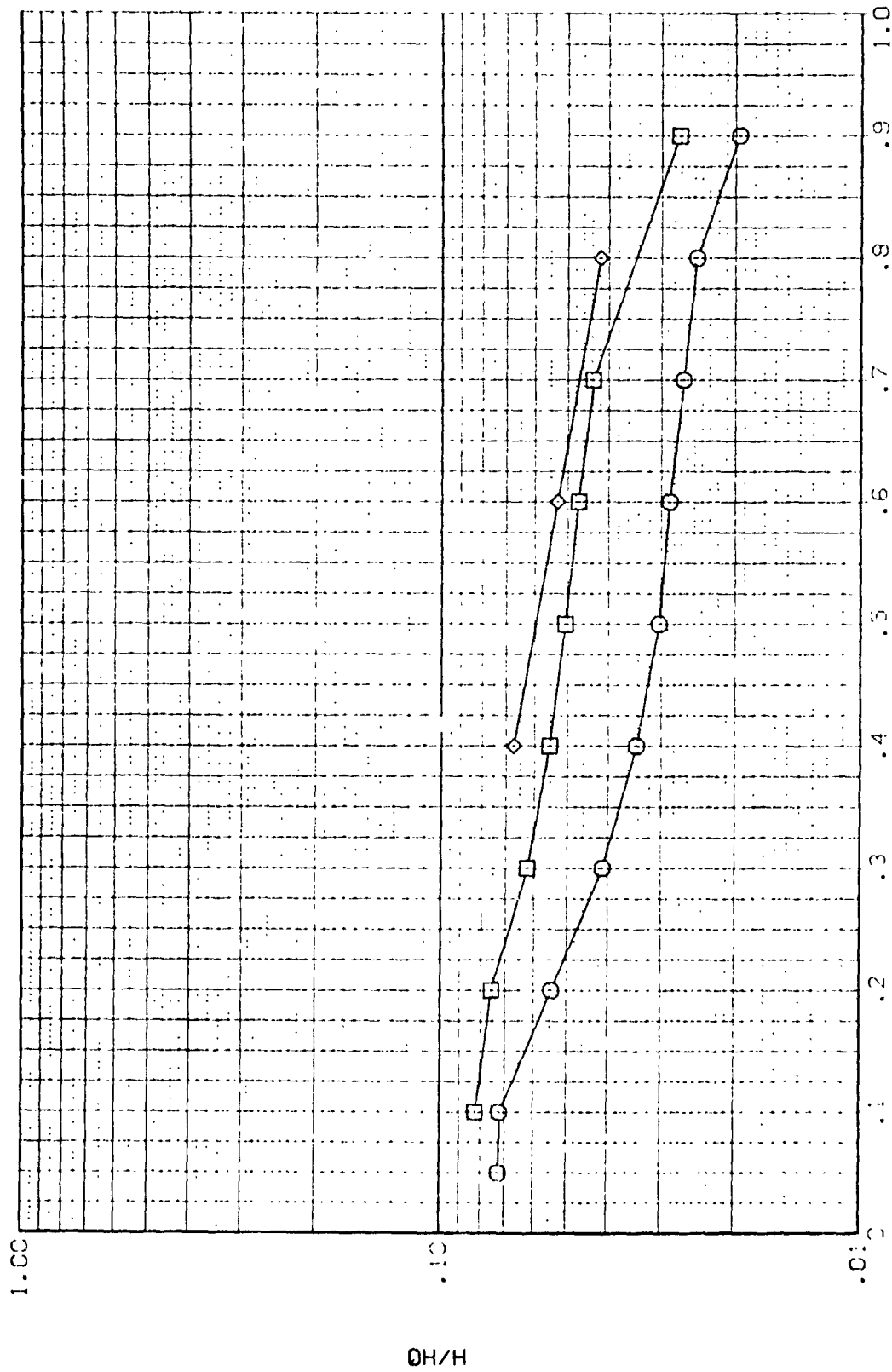


FIG 14 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 WING LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(RQLW05) 0H14 B22C7F5M4V7W111 WING LOWER SURFACE

$\frac{S_{WING}}{S_{REF}}$ 2//B $\frac{HAW/H}$.850 $\frac{RN/L}{3.000}$ ALPHA MACH .000
 .400
 .600
 .800

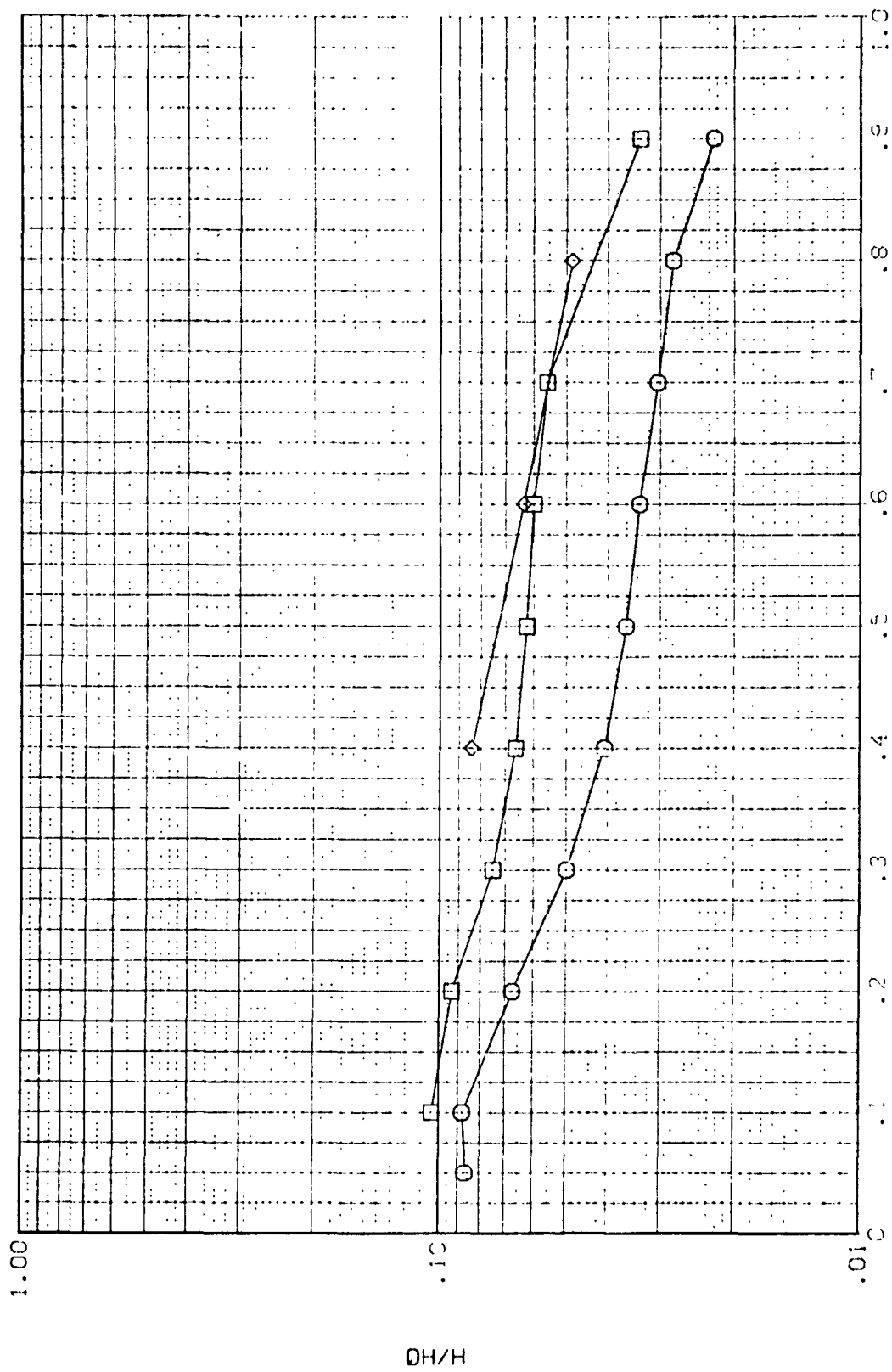


FIG 14 WING LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(RQLW05) 0H14 B22C7F5M4V7W111 WING LOWER SURFACE

SYNOPSIS: 2V/B .400 .600 .800
 HAW/H* .900 3.000
 ALPHA MACH
 PARAMETRIC VALUES 35.000 BETA .000
 8.000

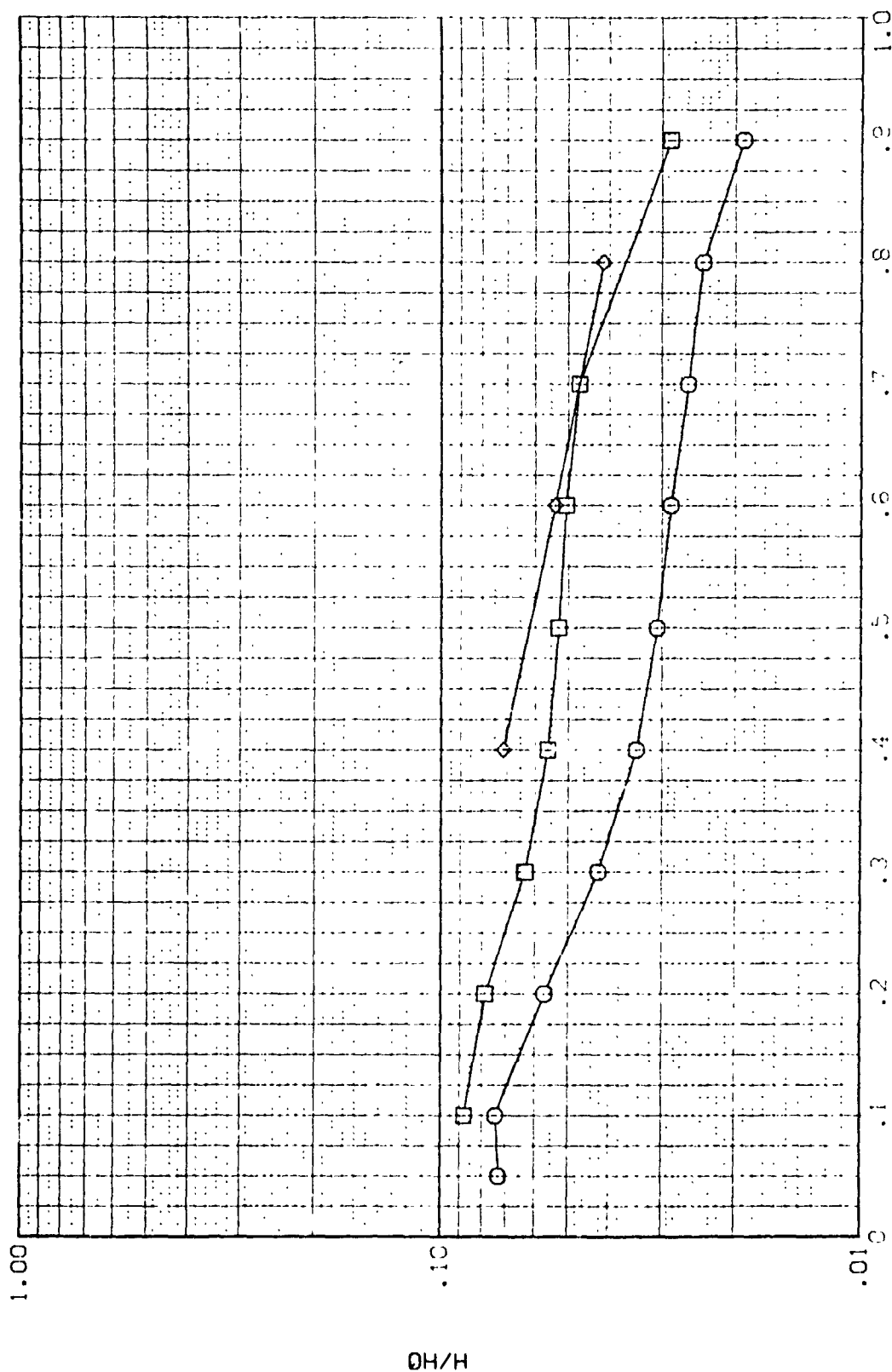


FIG 14 WING LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(RQLW05) 0H14 B22C7F5M4V7W111 WING LOWER SURFACE

PARAMETRIC VALUES
ALPHA 35.000
MACH 8.000

SVBCL 2Y/B
0.400
0.600
0.800

0.850

4.000

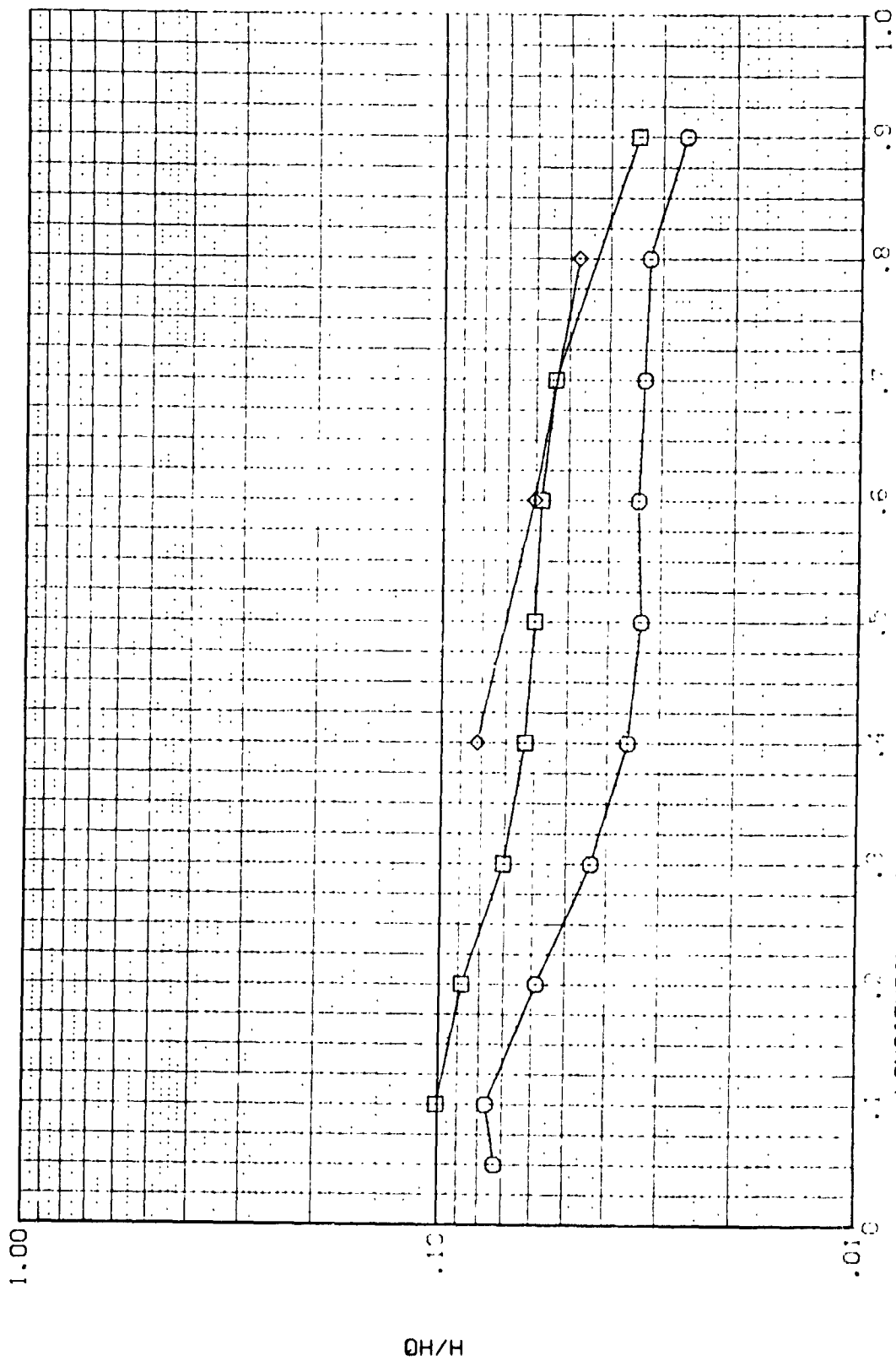


FIG 14 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
WING LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(RQLW05) 0H14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL 2Y/B
 000
 .400
 .600
 .800

MAH/100
 .900 4.000

PARAMETRIC VALUES
 ALPHA 35.000
 MACH 8.000
 BETA .000

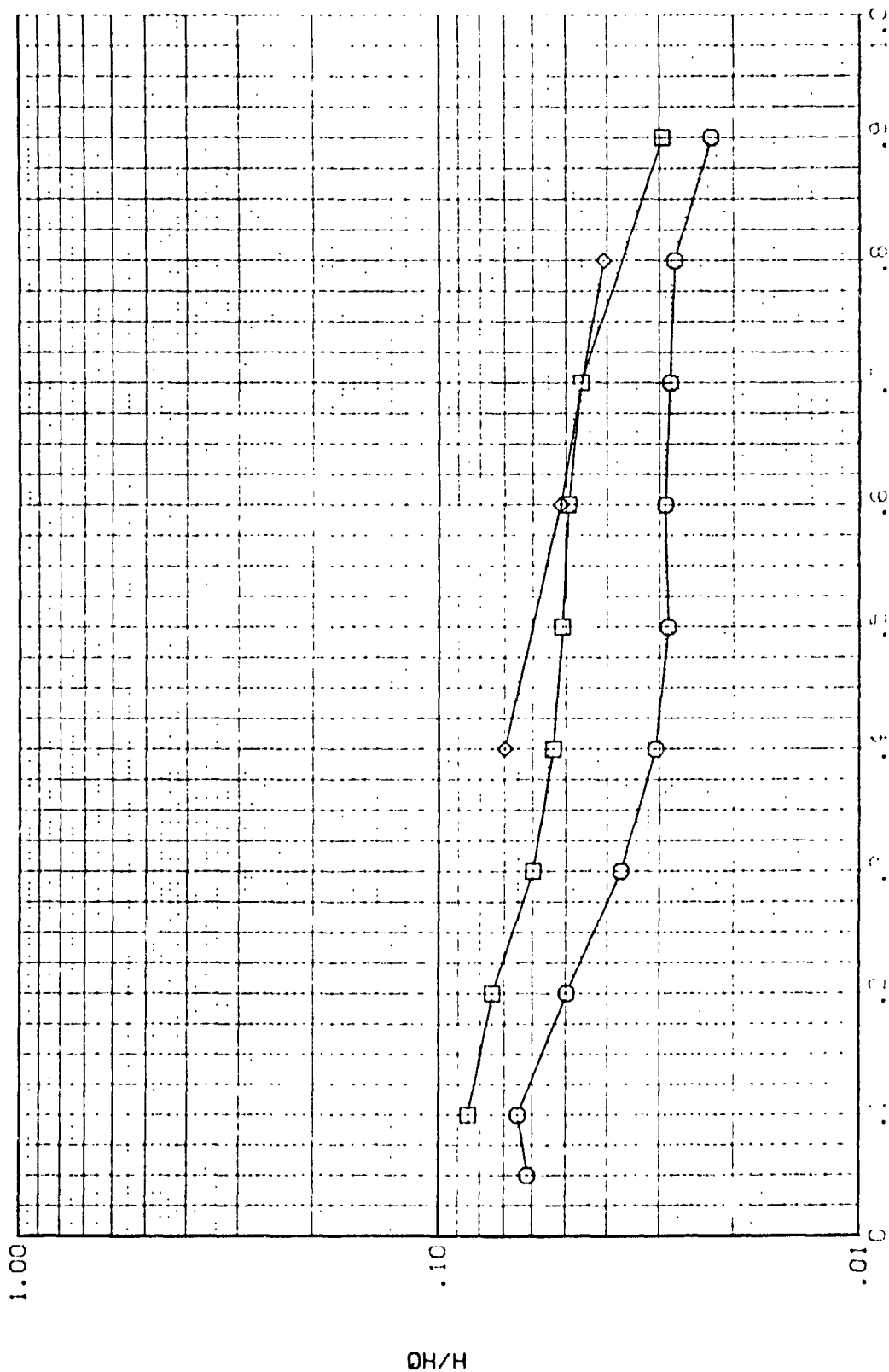


FIG 14 WING LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(RQLW05) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYNOPSIS 2' / B .400 .600 .800 1.000
 PARAMETRIC VALUES
 ALPHA 35.000 BETA .000
 MACH 8.000

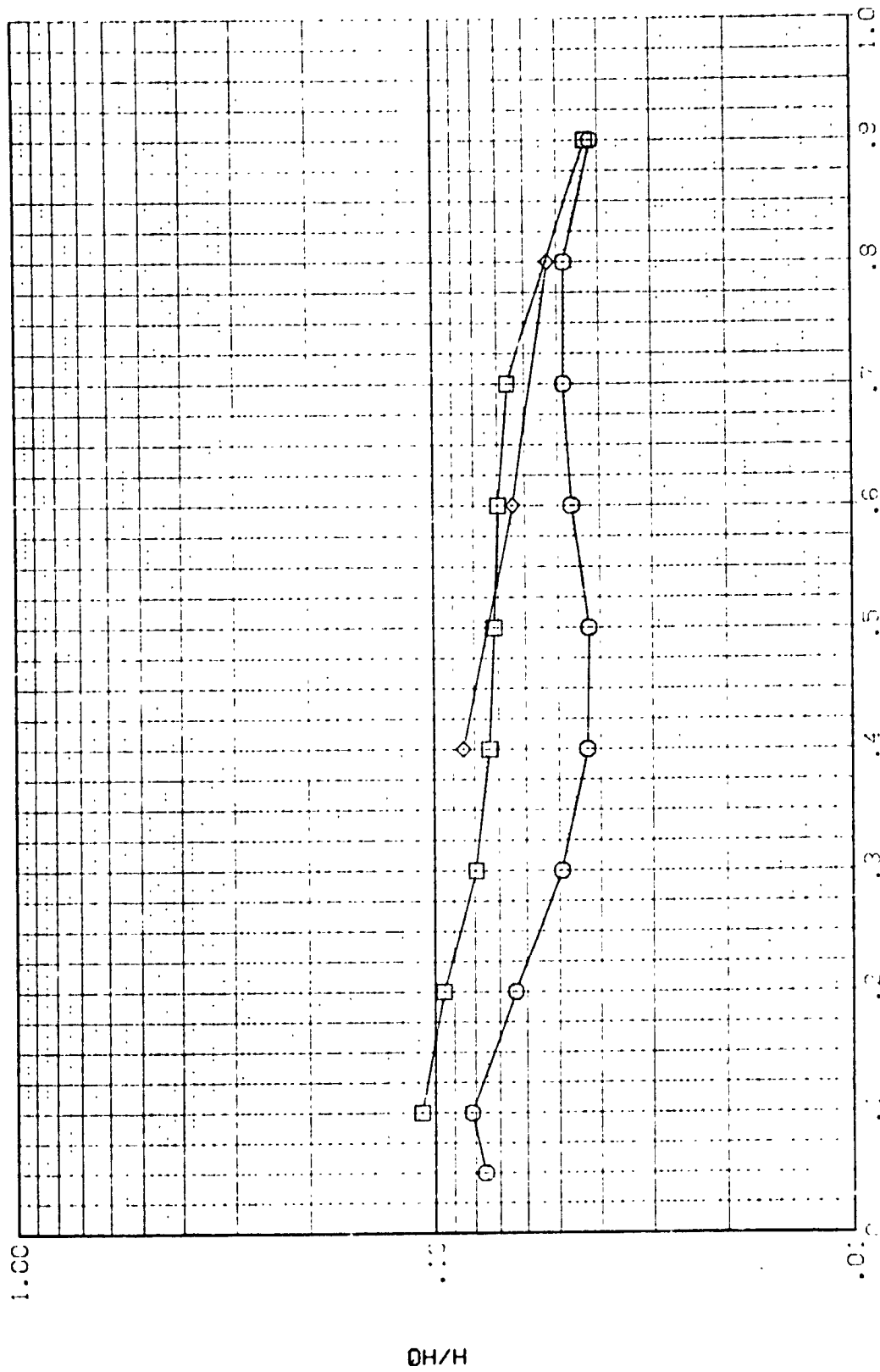


FIG 14 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
 WING LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(RQLW05) 0H14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL 21/8
 .400
 .600
 .800

HAS/HIT 21/8
 .900 5.000

PARAMETRIC VALUES
 ALPHA 35.000
 MACH 8.000
 BETA .000

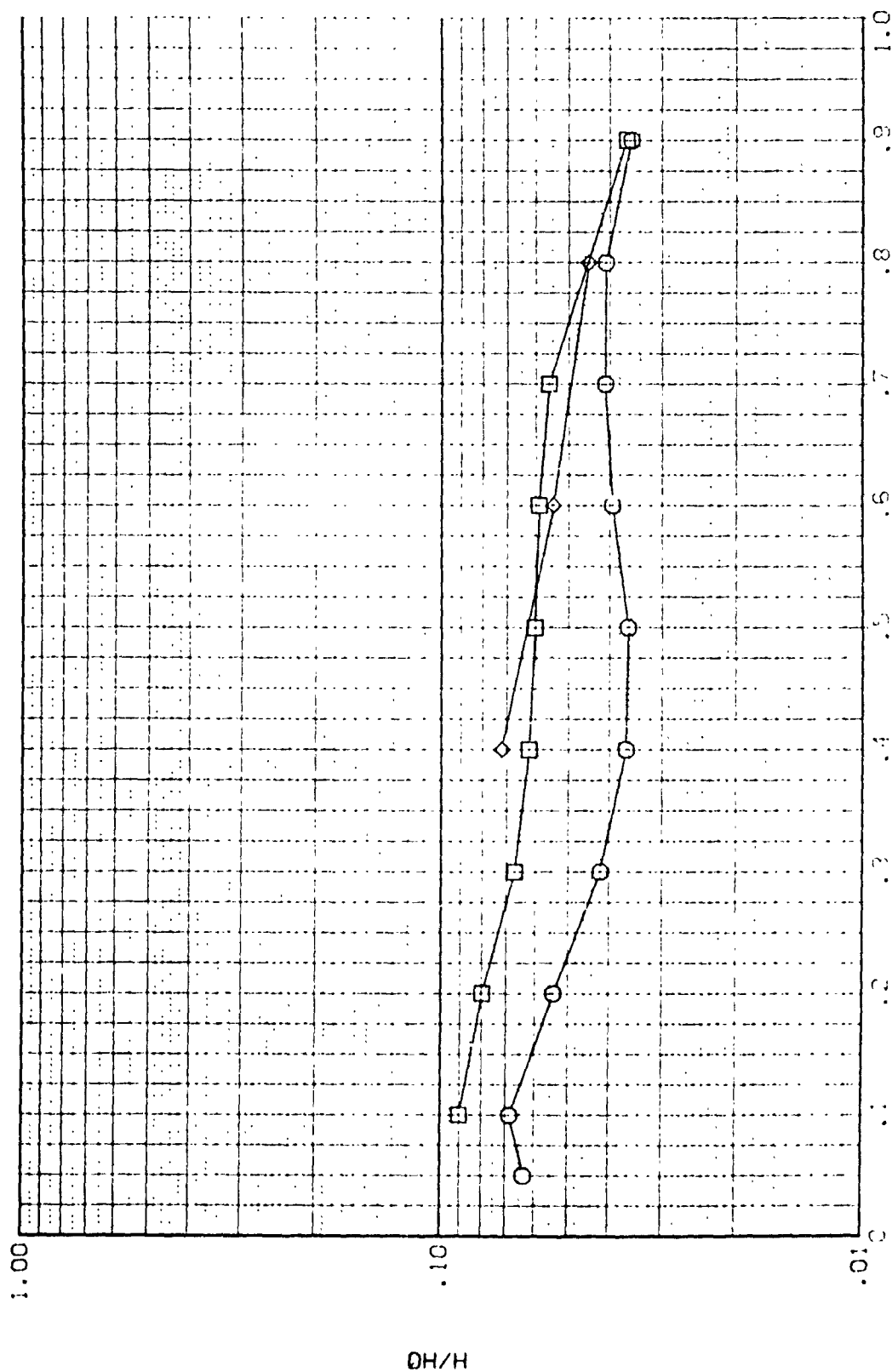


FIG 14 WING LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(RQLW05) 0H14 B22C7FSM4V7W111 WING LOWER SURFACE

SYMBOL 2V/B
 .400
 .600
 .800

REAR/LEAD
 .850 6.000

PARAMETRIC VALUES
 ALPHA
 MACH
 35.000
 8.000
 .000

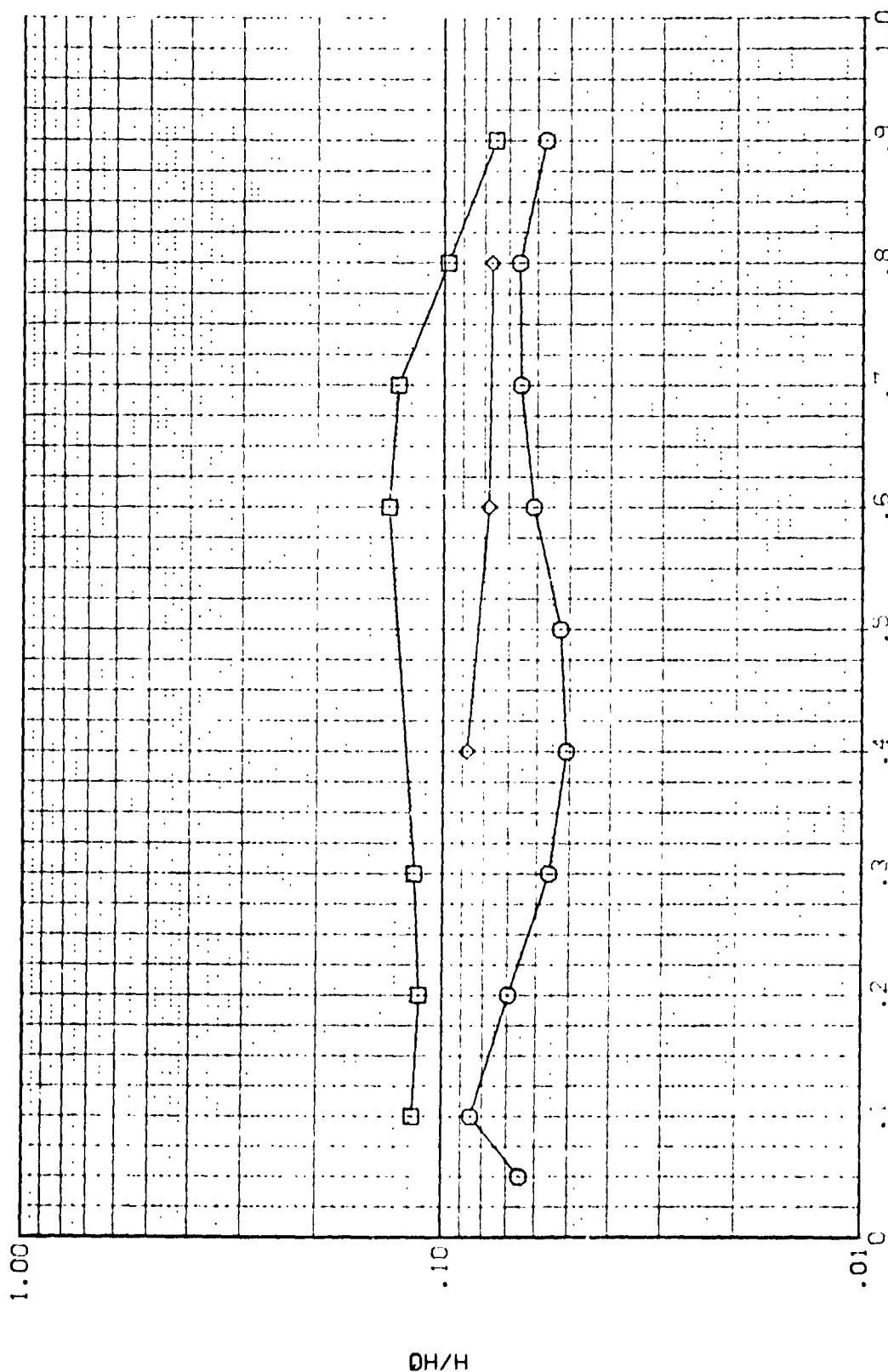


FIG 14 LONGITUDINAL WING STATION. X/C. FRACTION OF LOCAL WING CHORD
 WING LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(R0LW05) 0H14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL 2Y/B
 .400
 .600
 .800

MA_∞/M_∞
 .900

α/V_L
 6.000

ALPHA
 PACH

PARAMETRIC VALUES
 35.000 BETA
 8.000

.000

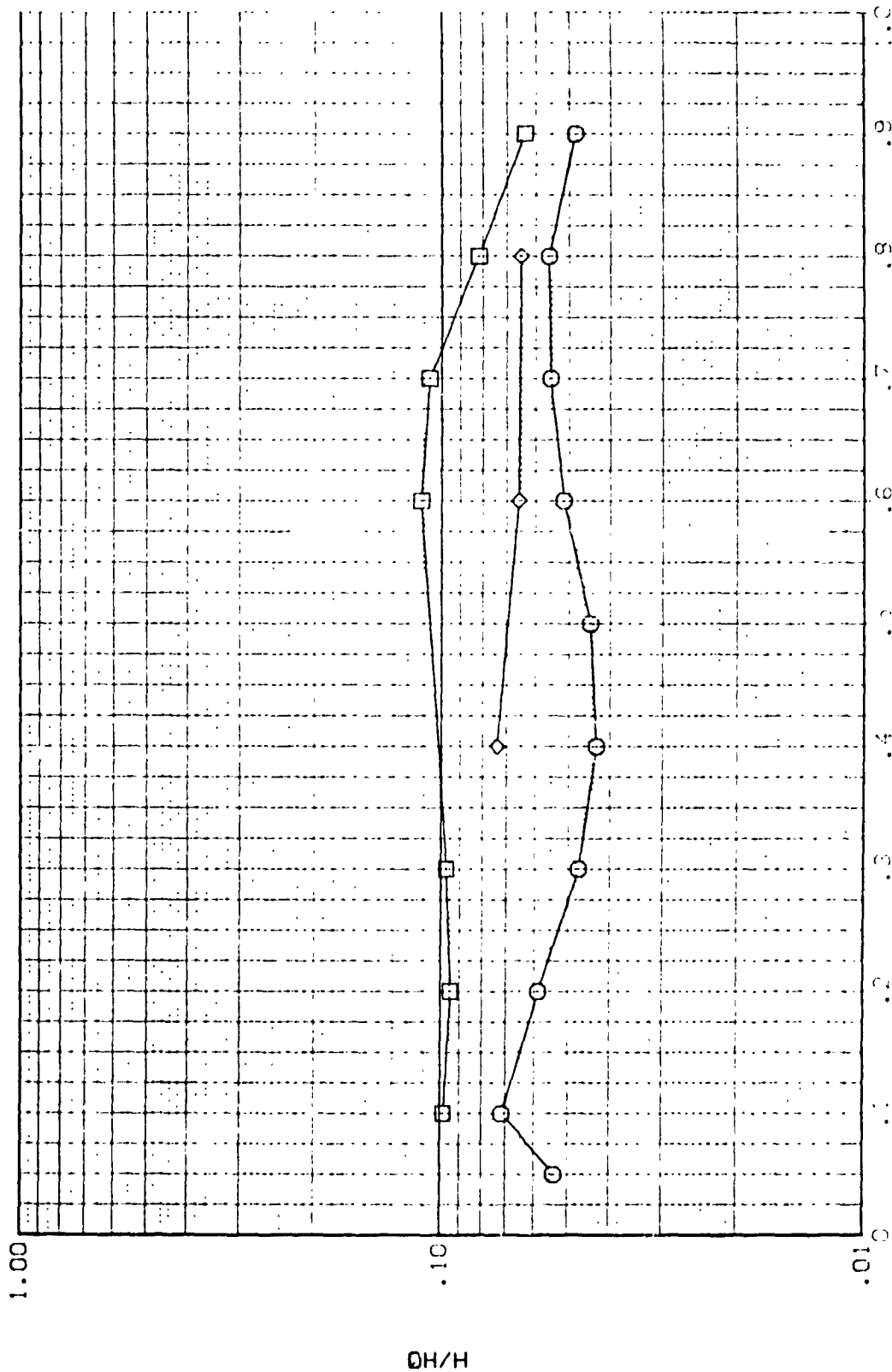


FIG 14 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 WING LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(ROLW05) 0H14 B22C7F5M4V7W111 WING LOWER SURFACE

PARAMETRIC VALUES
 ALPHA 35.000
 BETA 8.000
 PACH .000

21/3
 .400
 .500
 .800
 HAH/H1
 .850
 RN/L
 8.000

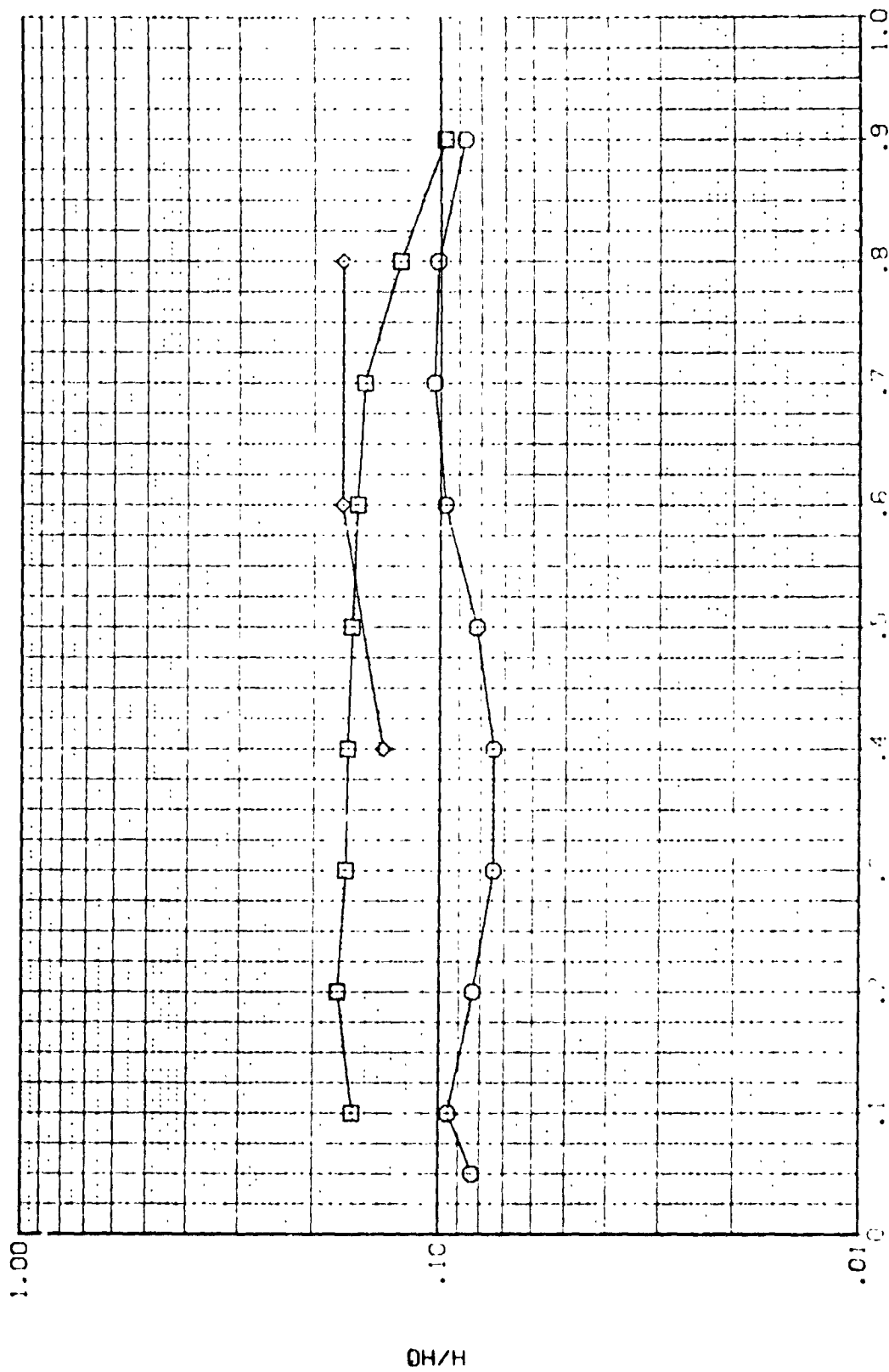


FIG 14 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
 WING LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

CHI4 B22C7F5M4V7W111 WING LOWER SURFACE

(R0LW05) 2Y/B
SYMBOL 400
444/H 500
RN/L 8.000
8.000
8.000

PARAMETRIC VALUES
ALPHA 35.000
MACH 8.000
BETA 8.000

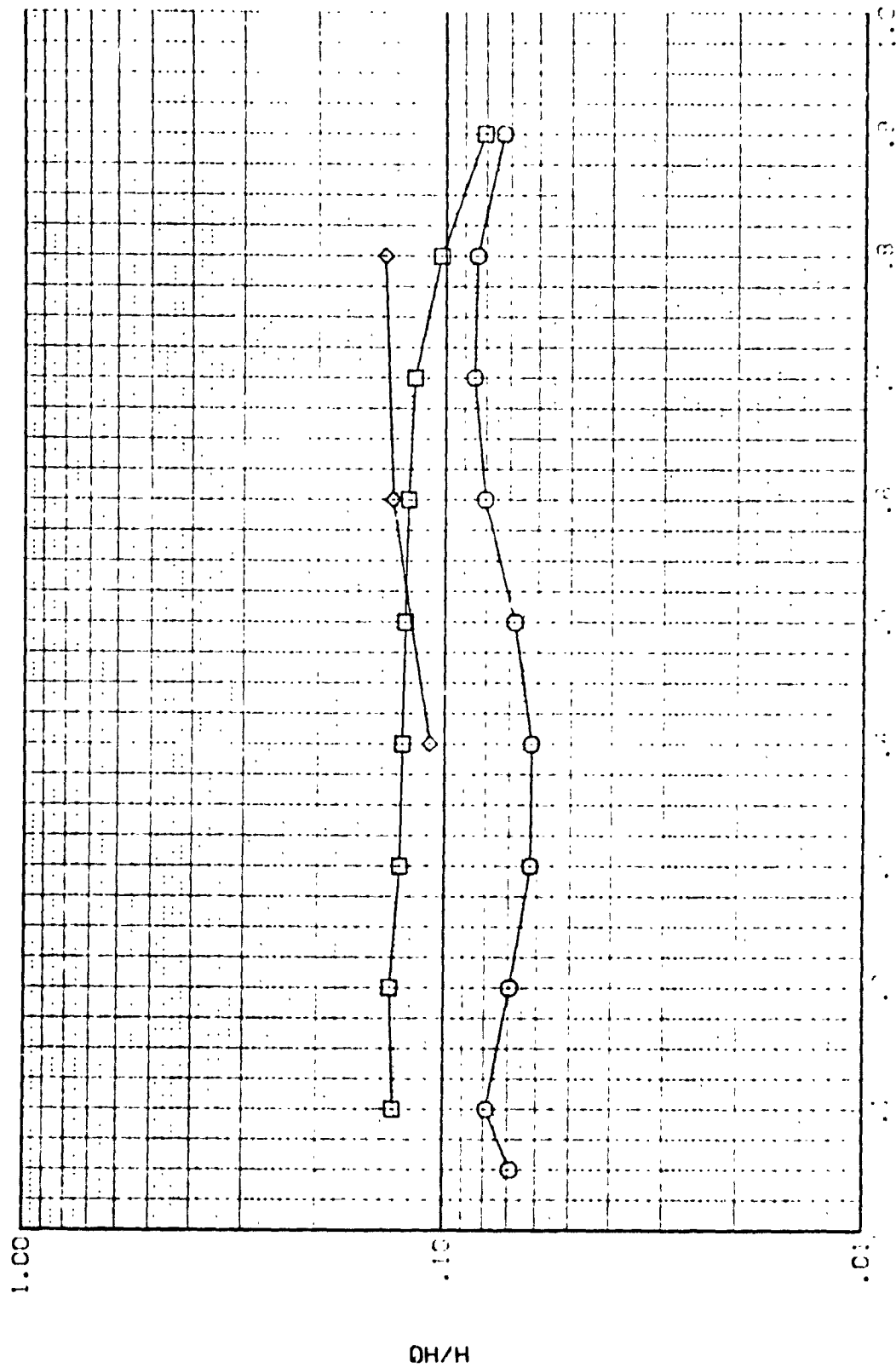


FIG 14 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
WING LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(RQLW05) OH14 B22C7FSM4V7W111 WING LOWER SURFACE

| | | | |
|--------|-------|--------|-------------------|
| SVIBCL | 2V/B | 0.400 | PARAMETRIC VALUES |
| 0.600 | 0.850 | 10.000 | 35.000 |
| 0.800 | | | BETA |
| | | | 8.000 |
| | | | ALPHA |
| | | | MACU |
| | | | .000 |

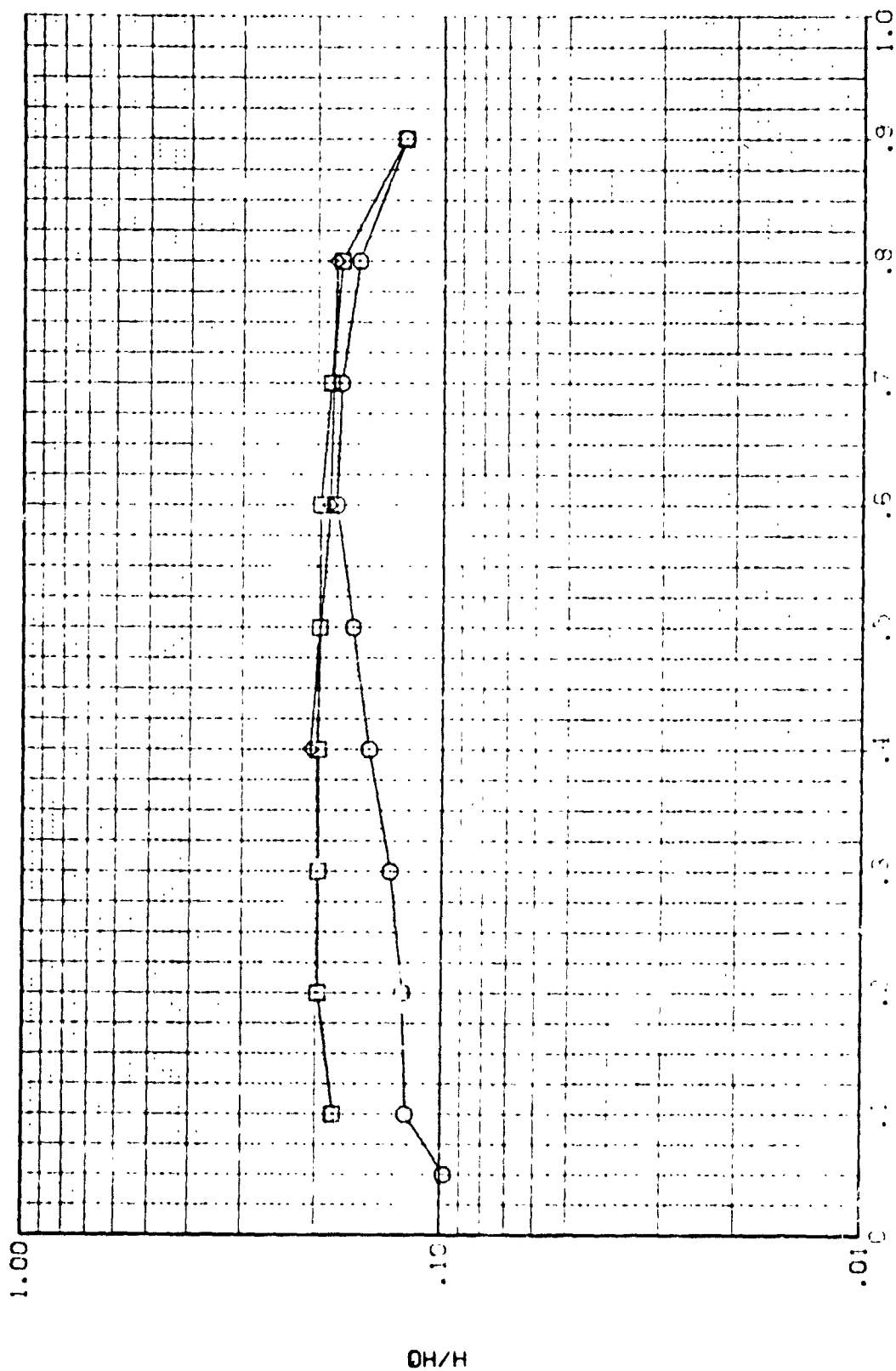


FIG 14 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
WING LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(RQLW05) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

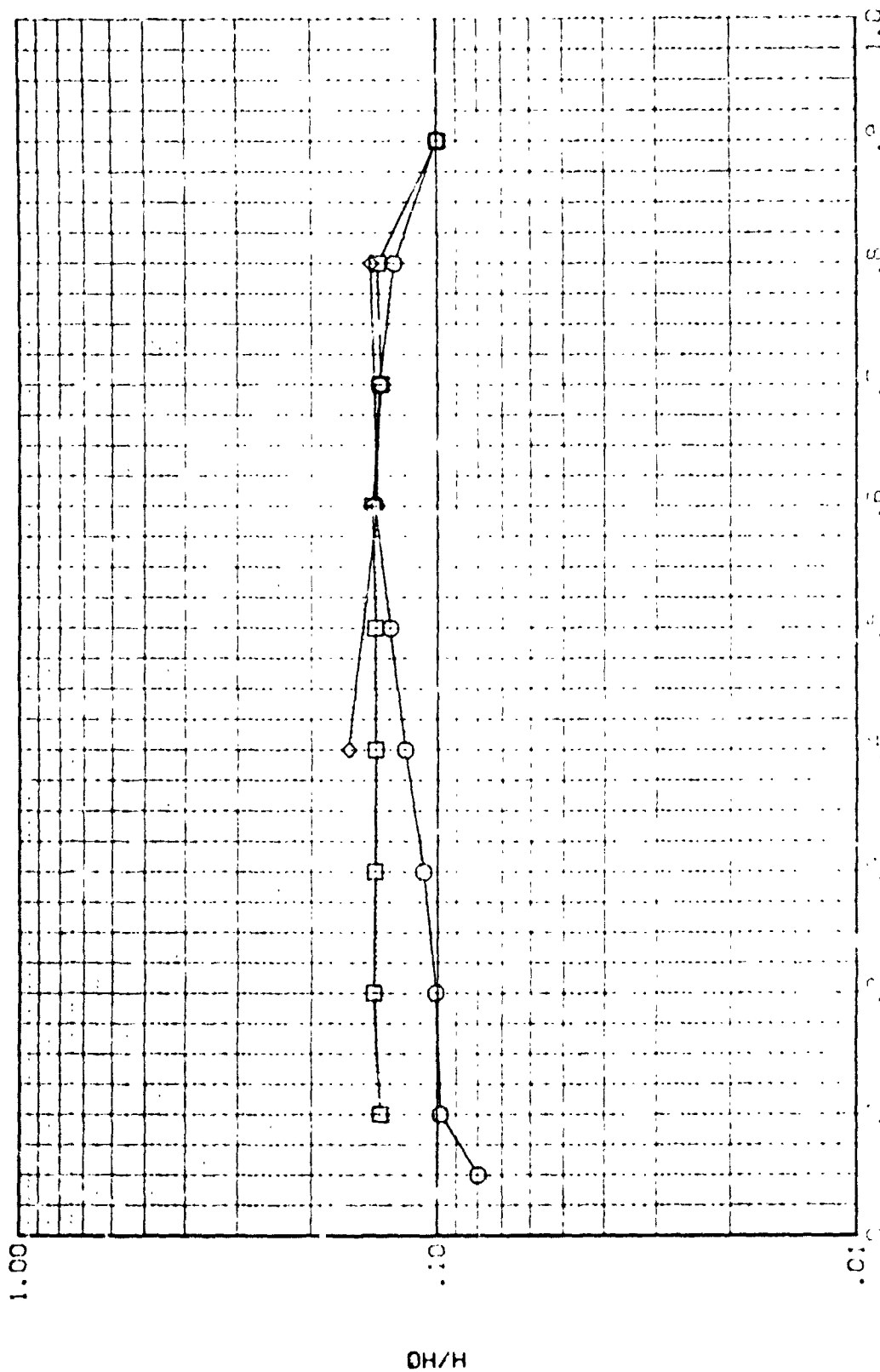
PARAMETRIC VALUES
 35.000
 51.000
 1.000

ALPHA
 35.000
 51.000

MAW/M
 .900
 10.000

2Y/B
 .400
 .600
 .800

0.00



LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 FIG 14 WING LOWER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(RQLS05) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 35.000 8.000 .000
 BE-A

ALPHA
 MACH

MA/H 1.000
 .850

W.P.
 375.000
 400.000
 425.000
 450.000
 501.000
 .100

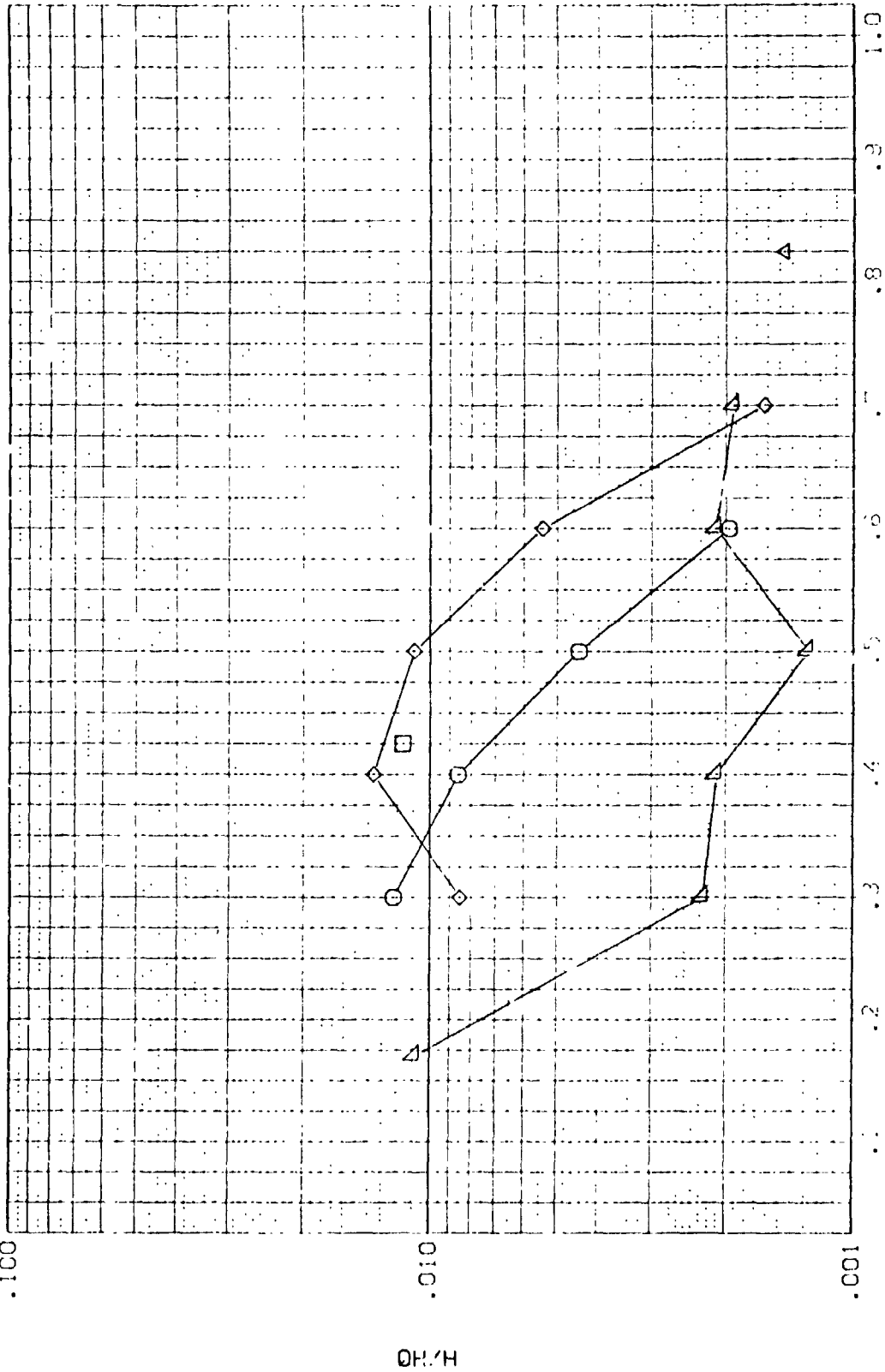


FIG 15 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

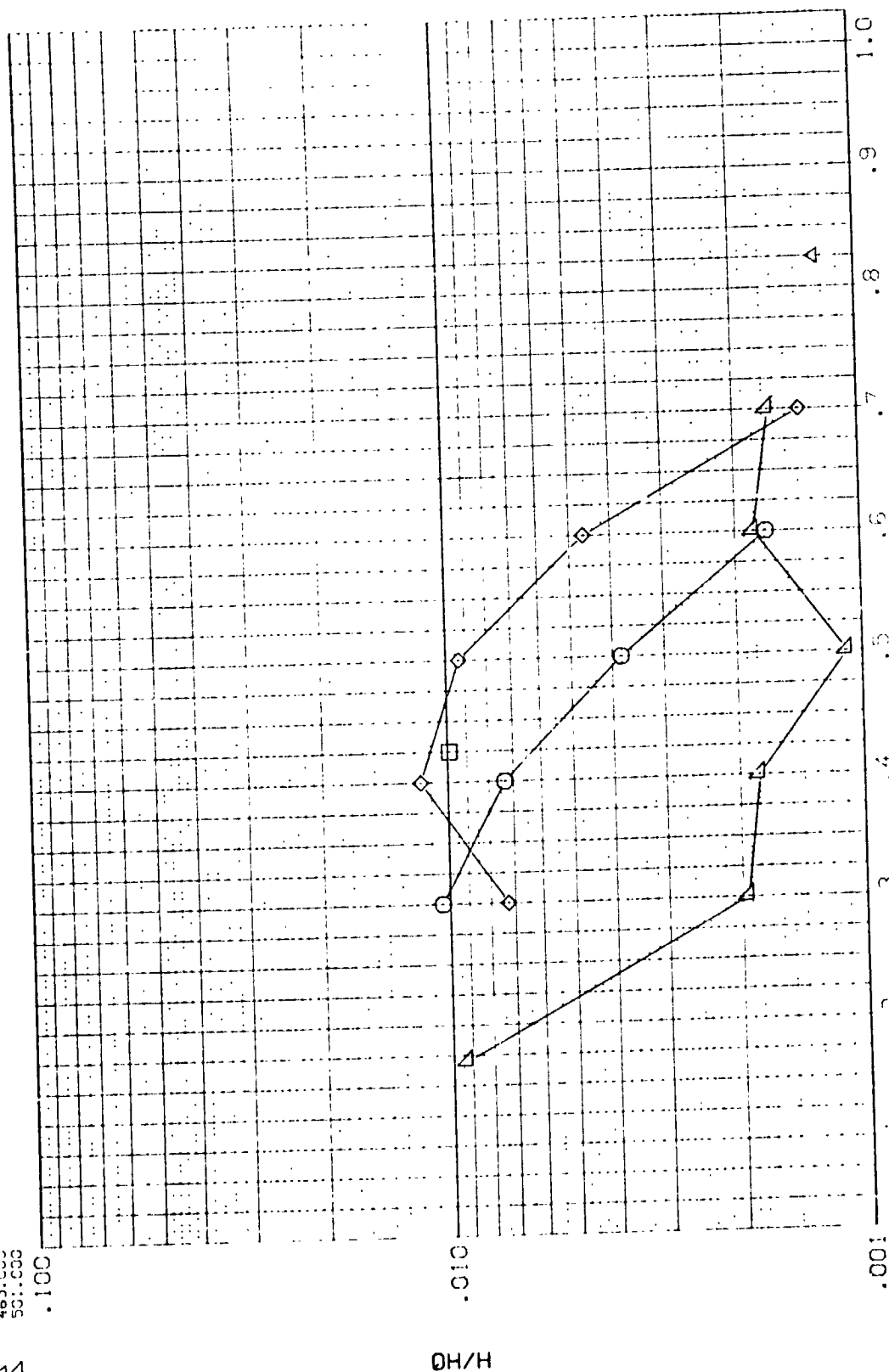
0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 35.000 BETA
 8.000

ALPHA
 MACL

HA/H* .900
 0.000

(RQLS05)
 SYMBC 4.P.
 375.000
 400.000
 425.000
 450.000
 500.000
 .100



LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(R0LS05) 0H14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 35.000 BETA
 8.000

ALPHA
 MACH

WAVELENGTH
 .850

3.000

375.000

400.000

425.000

450.000

501.000

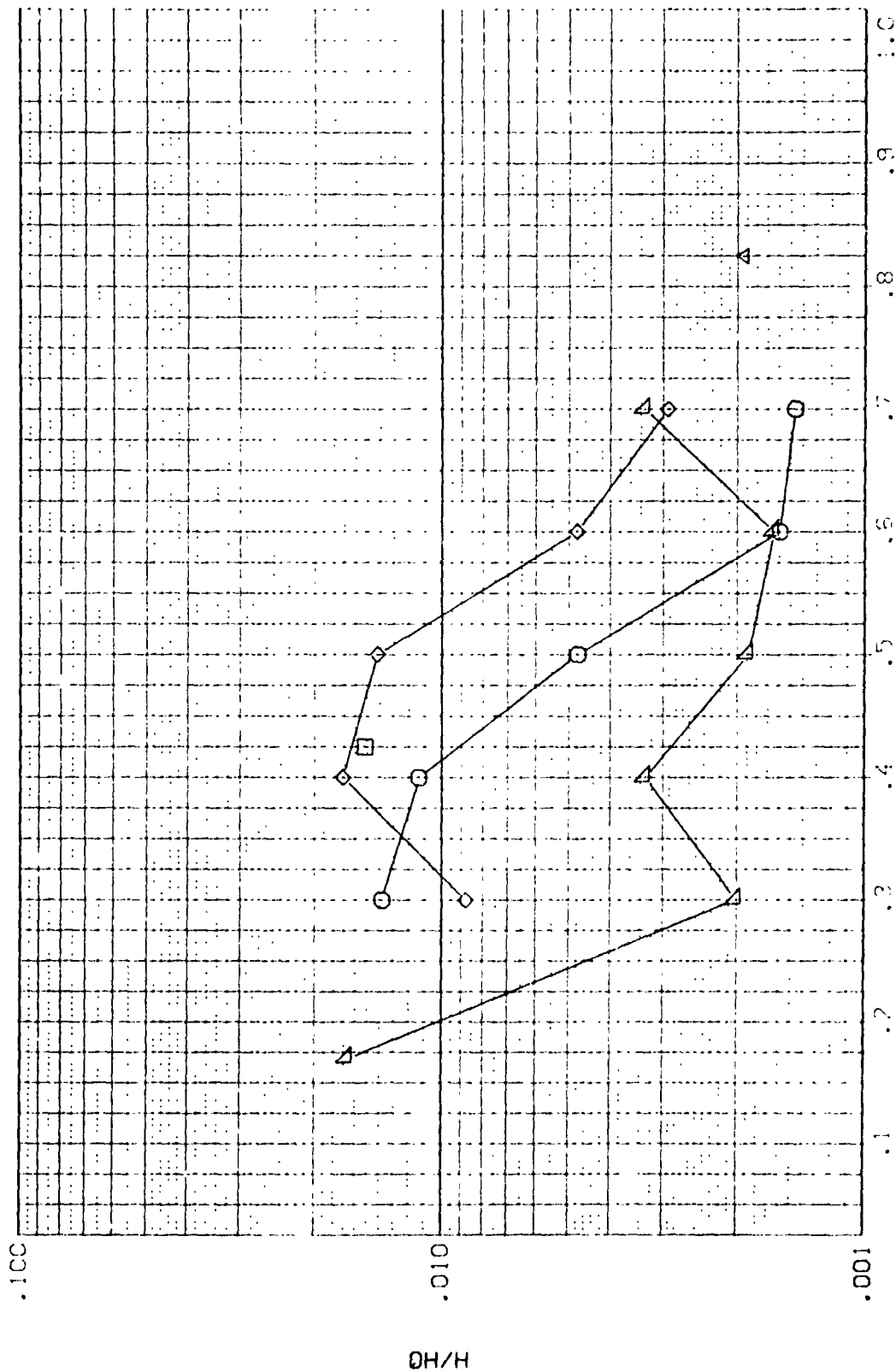


FIG 15 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(RQLS05) OH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE

SYMBOL d.p.
375.000
400.000
425.000
450.000
501.000
100

HAW/HT .900 RN/L 3.000

PARAMETRIC VALUES
ALPHA MACH
35.000 8.000
BETA .000

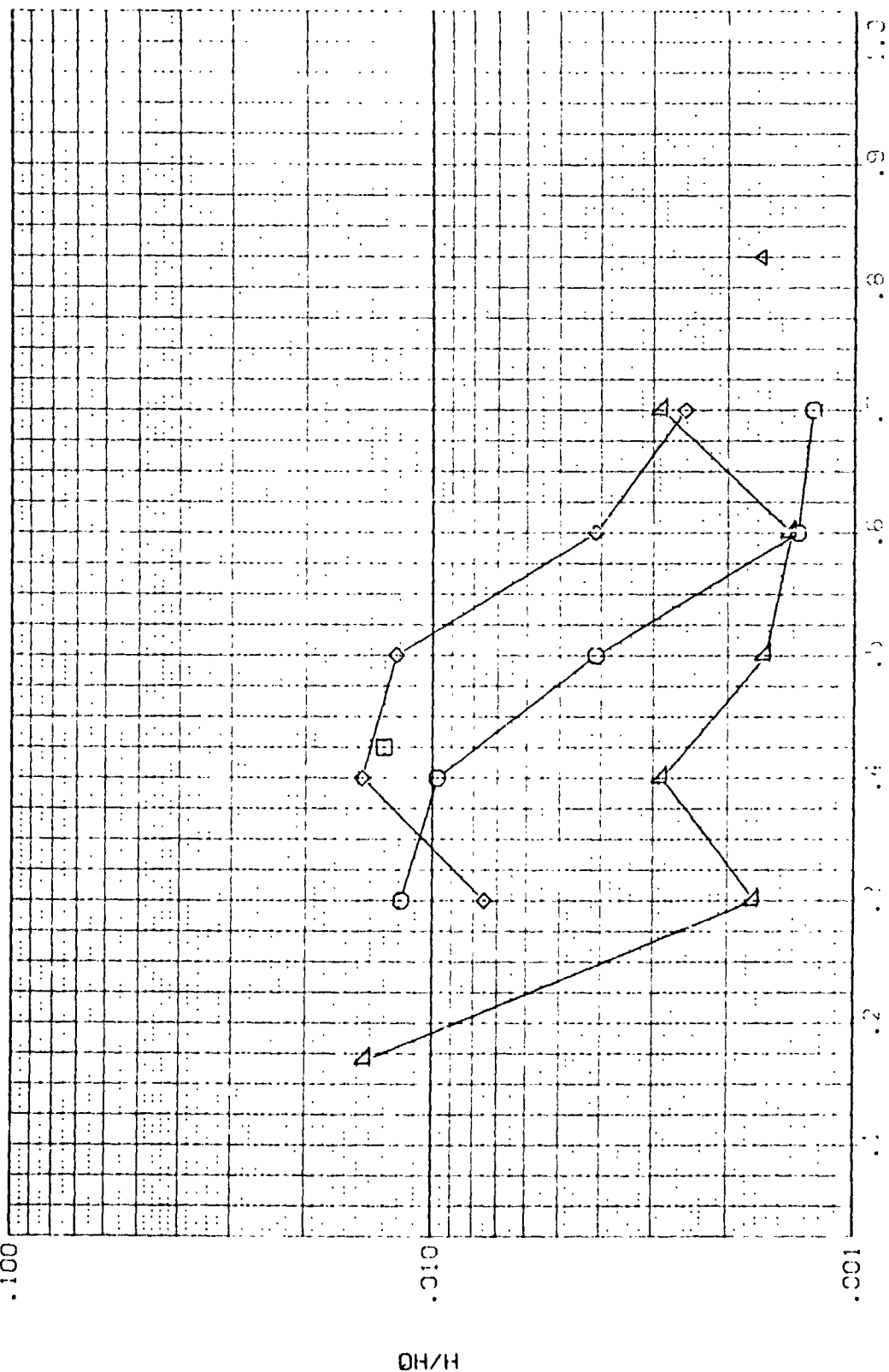


FIG 15 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
FUSELAGE UPPER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

(RQLS05) 375.000
 SVVBC- 420.000
 425.000
 465.000
 501.000
 .100

HAW/HT .850
 PA/L 4.000

PARAMETRIC VALUES
 35.000 BETA
 8.000

ALPHA
 MACH

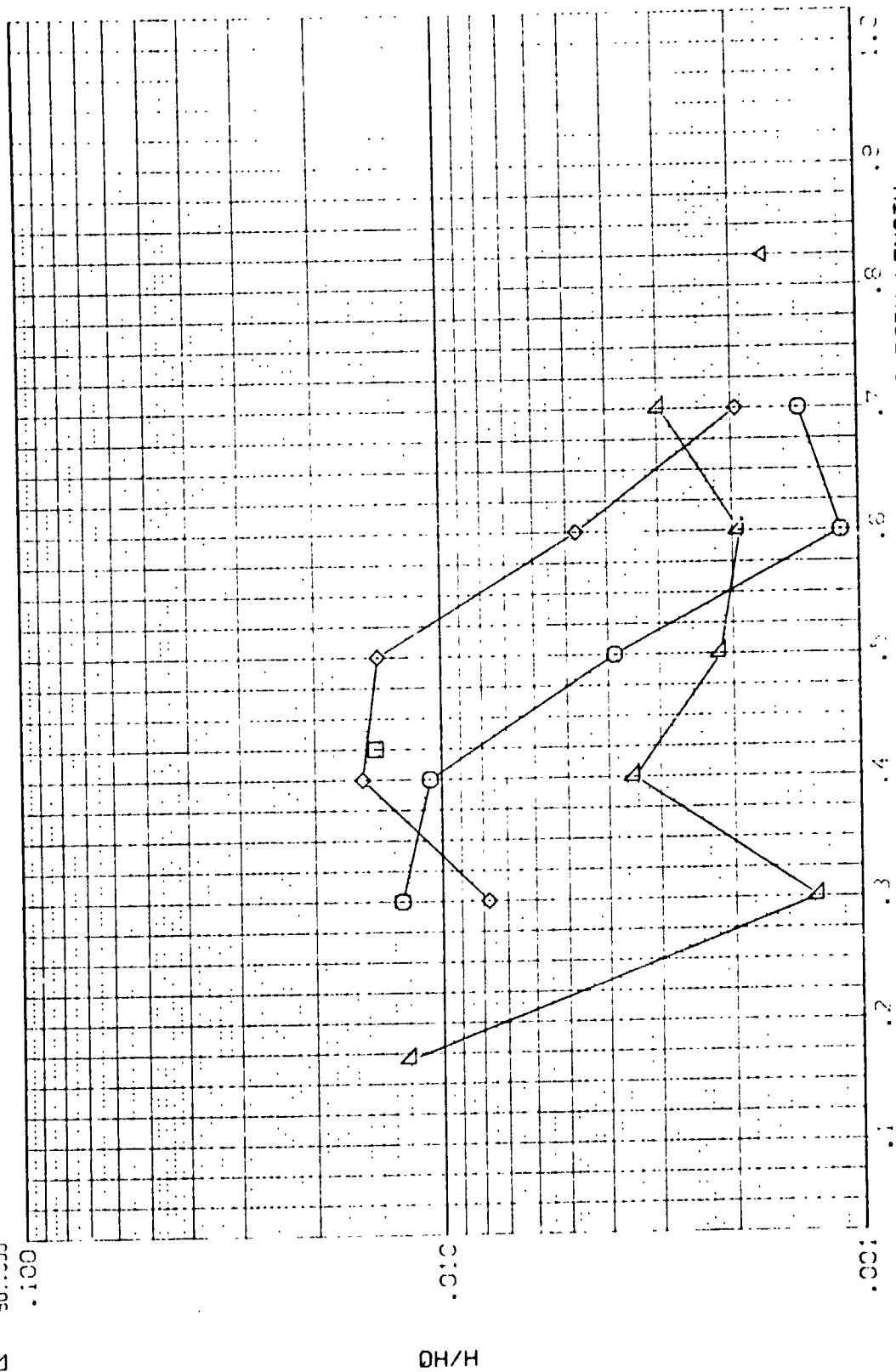


FIG 15 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(RQLS05) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL W.P.
 375.000
 400.000
 425.000
 450.000
 501.000

W.A. M. 0N
 .900 4.000

PARAMETRIC VALUES
 ALPHA 35.000
 WACH 8.000
 BETA .000

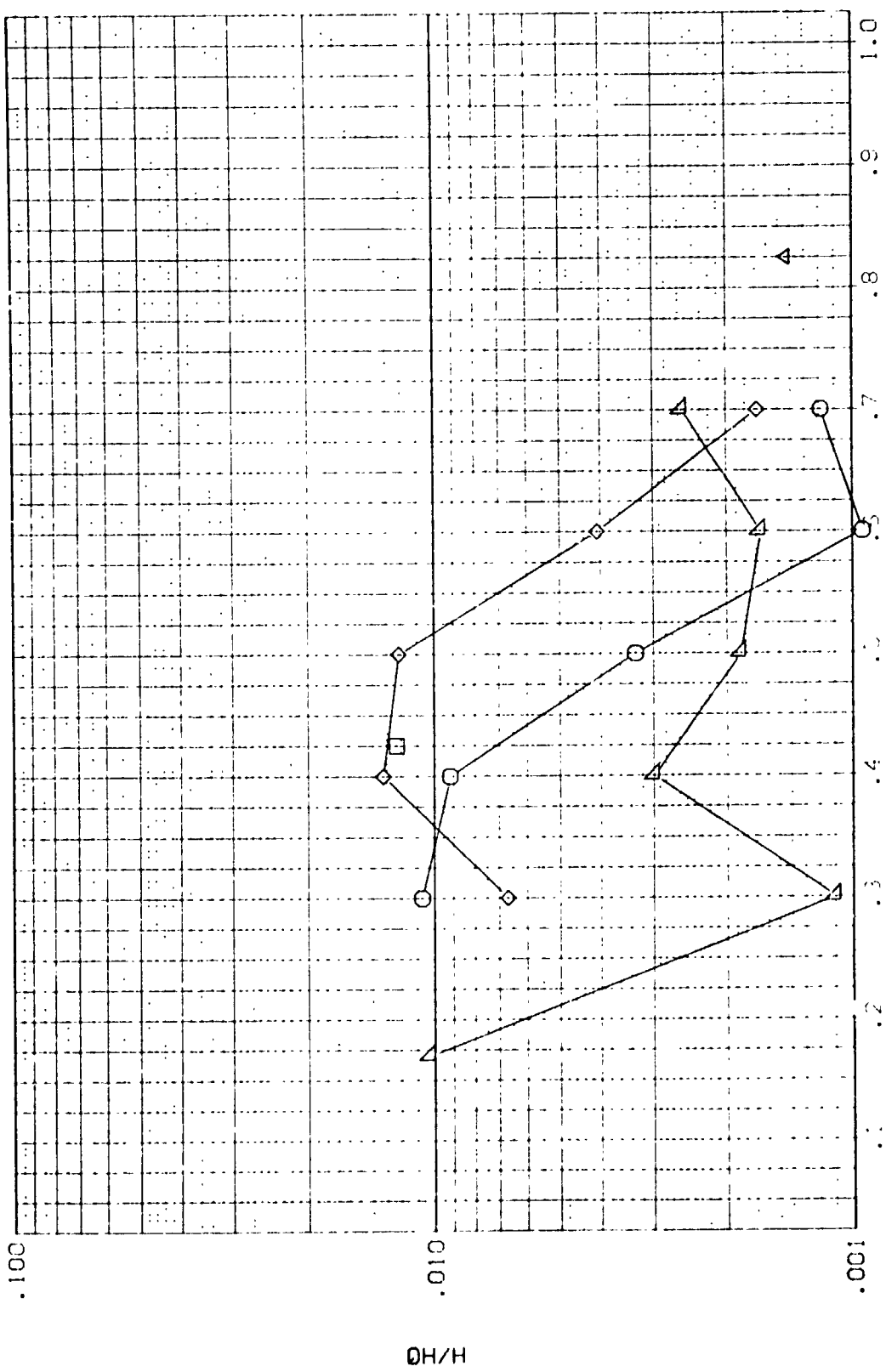


FIG 15 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(R0LS05) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL W.P.
375.000
400.000
423.000
465.000
501.000
00000

WAV/HT 5.000
.85C

PARAMETRIC VALUES
ALPHA 35.000
MACH 8.000
BETA .000

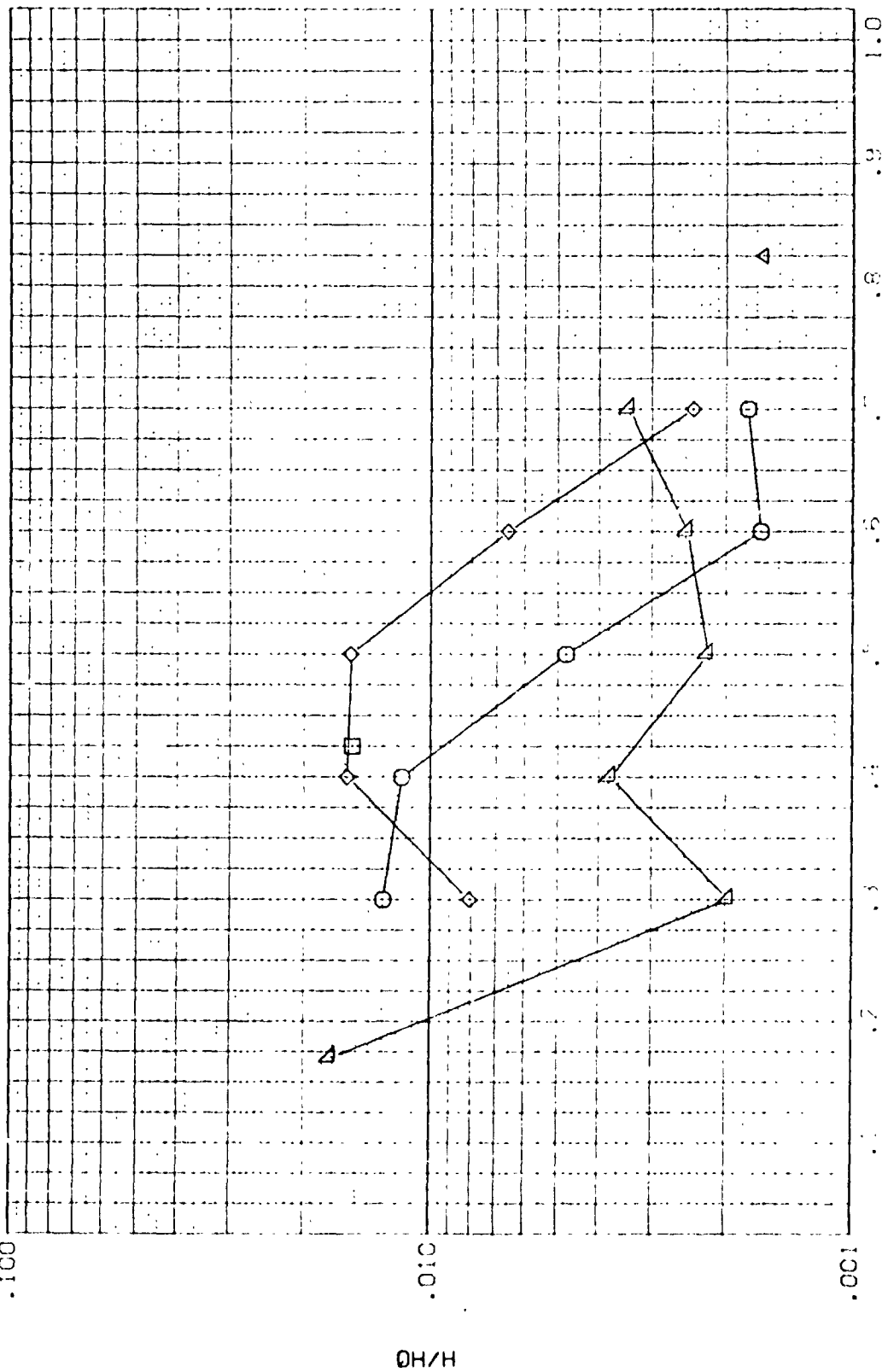


FIG 15 LONGITUDINAL FUSELAGE STATION. X/L, FRACTION OF BODY LENGTH
FUSELAGE UPPER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
|--|--|--|--|--|--|



PAGE 156

(RQL3J5) OH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 ALPHA 35.000
 MACH 8.000
 BETA .000

U_∞/U_T .850
 R_{N/L} 6.000

Y₂₅ 375.000
 400.000
 425.000
 450.000
 475.000
 500.000
 525.000

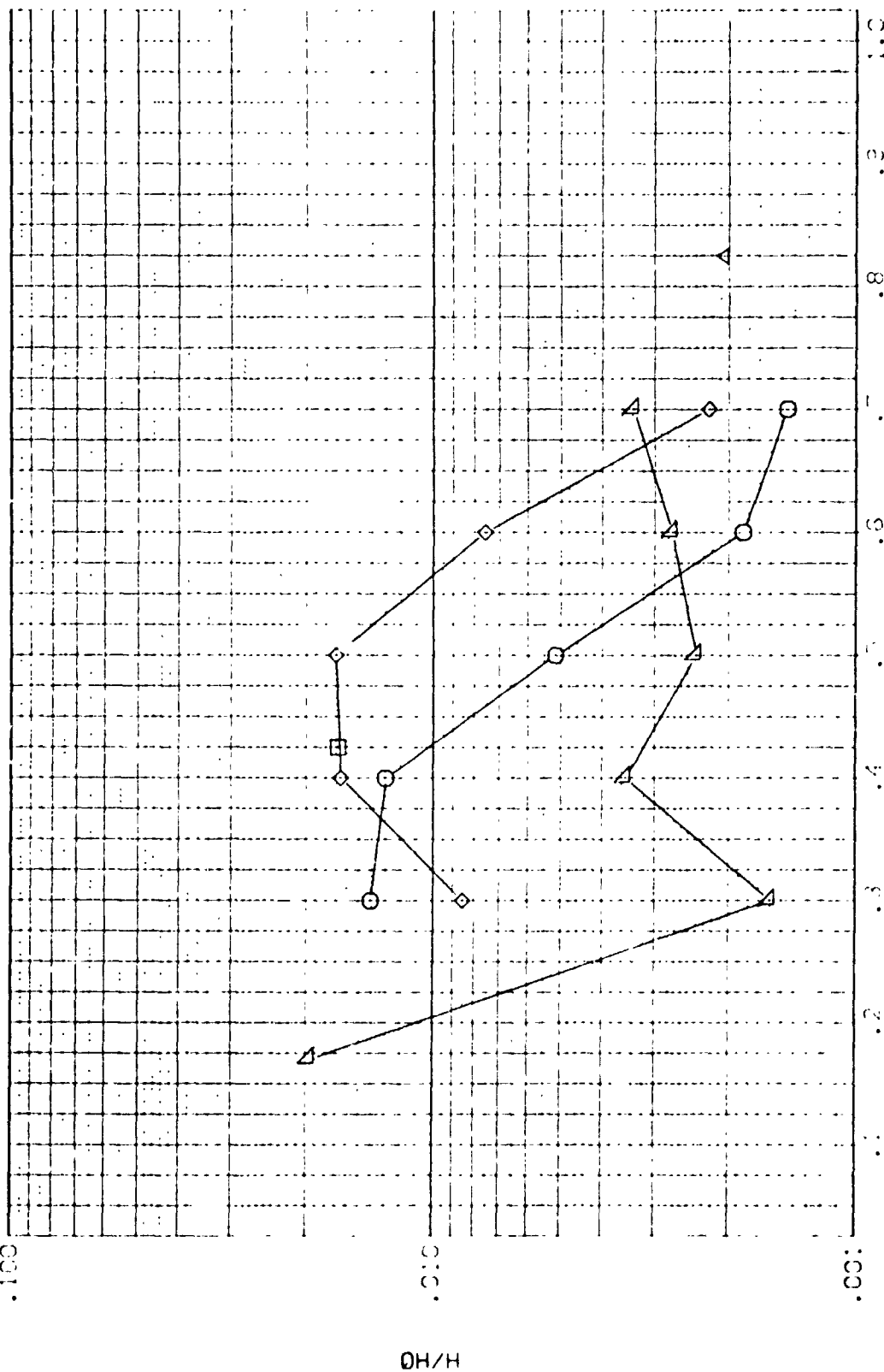


FIG 15 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(R0LS05) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 ALPHA 35.000
 BETA 8.000
 MACH .000

MAN/MT 6.000
 .900

SYMBOL
 375.000
 400.000
 425.000
 465.000
 501.000
 .100

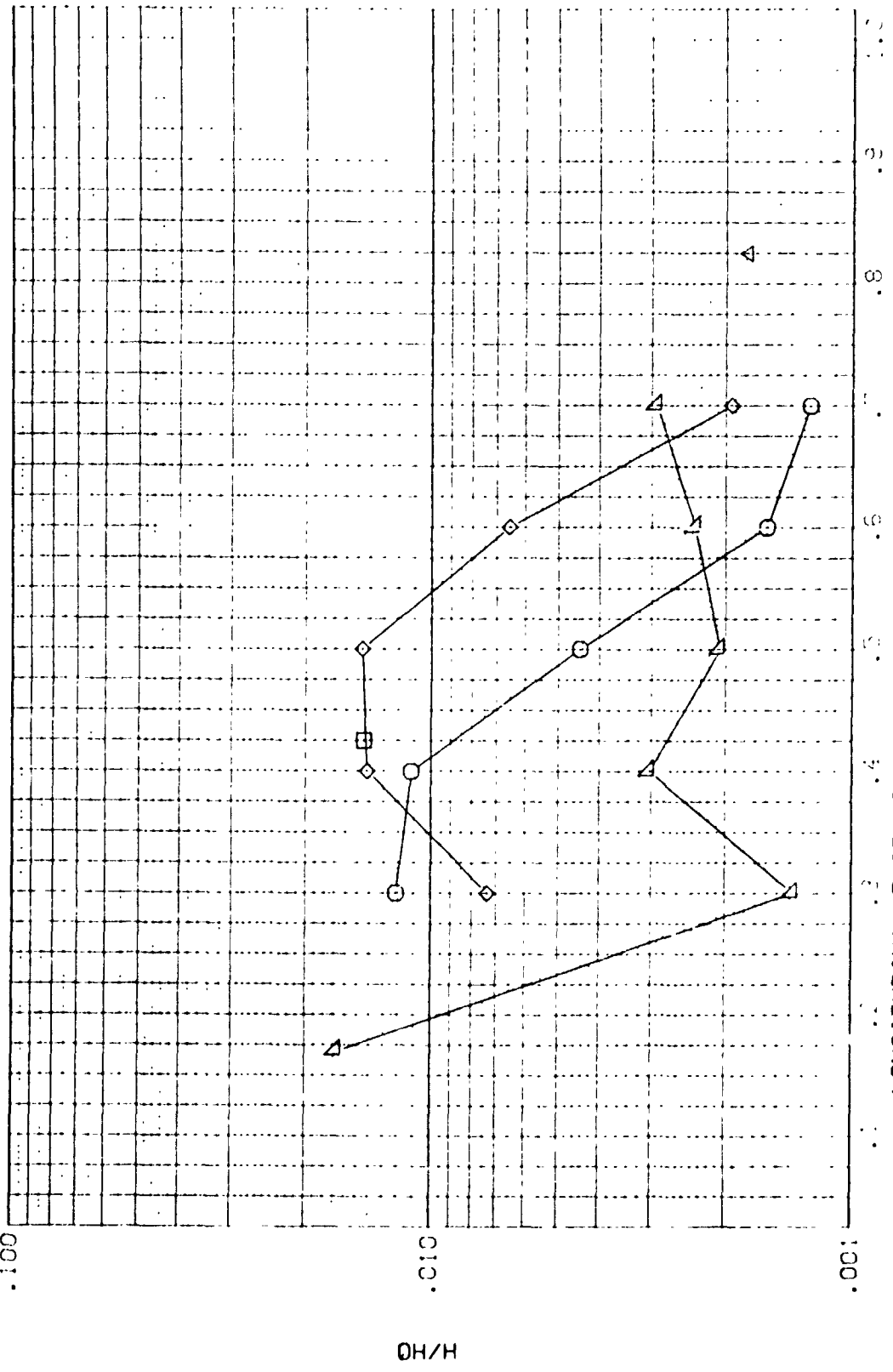


FIG 15 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(RCLS05) OH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE

SVRCL 375.000
400.000
425.000
450.000
500.000
510.000

WAVELENGTH
8.000

PARAMETRIC VALUES
35.000
8.000
BETA
1.000

ALPHA
MACH

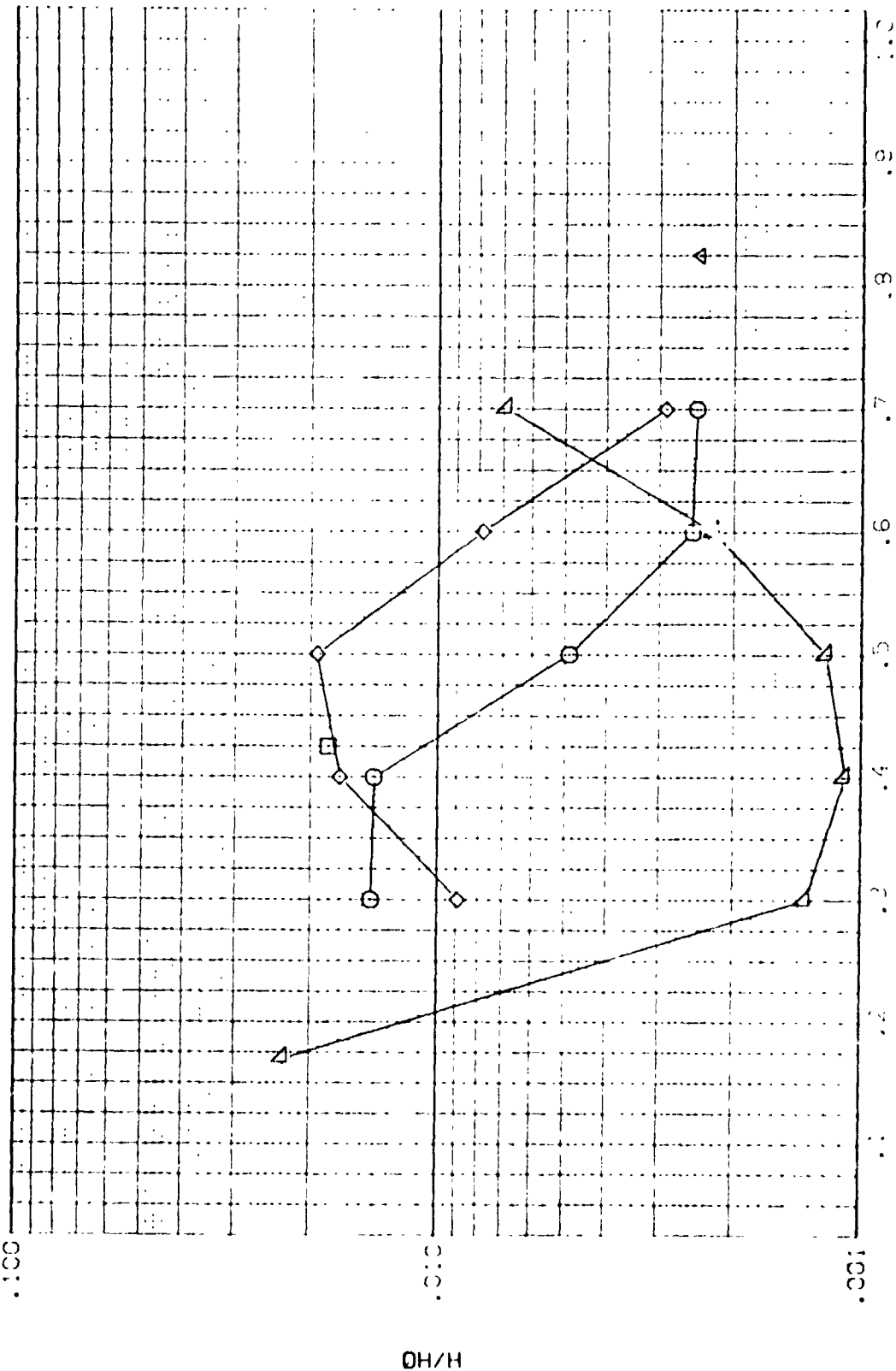


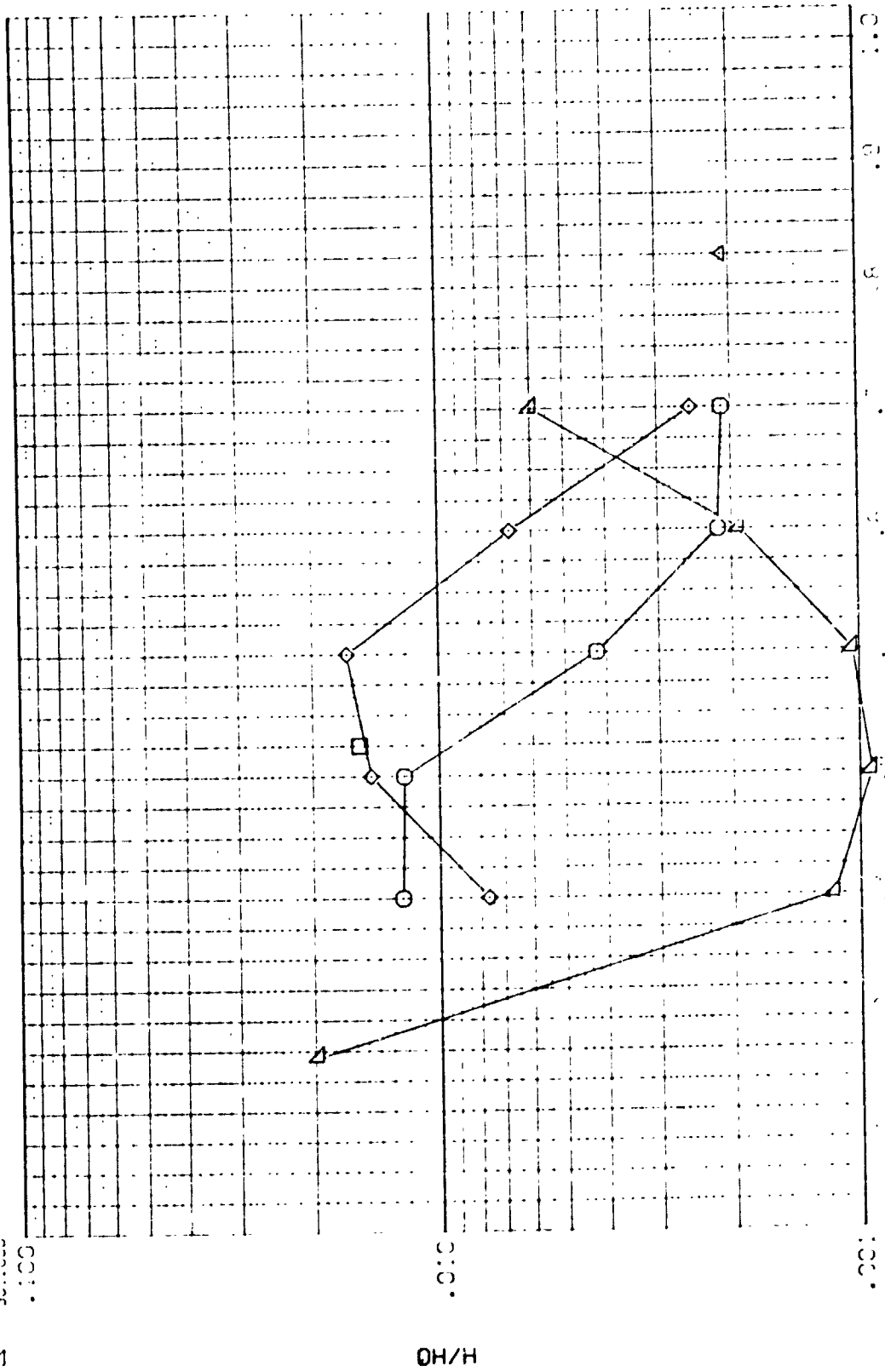
FIG 15 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
FUSELAGE UPPER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(R0LS05) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SVW3C-
Q X 4
M.P.
375.000
400.000
425.000
450.000
500.000
550.000
600.000

MACH
.900 9.000

PARAMETRIC VALUES
ALPHA
MACH
35.000 BETA
8.000



LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
FUSELAGE UPPER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(RQLS05)
SINGL W.P.
Q K Δ

| PARAMETRIC VALUES | |
|-------------------|------|
| 35.000 | BETA |
| 8.000 | |
| | .000 |

ALPHA
MACH

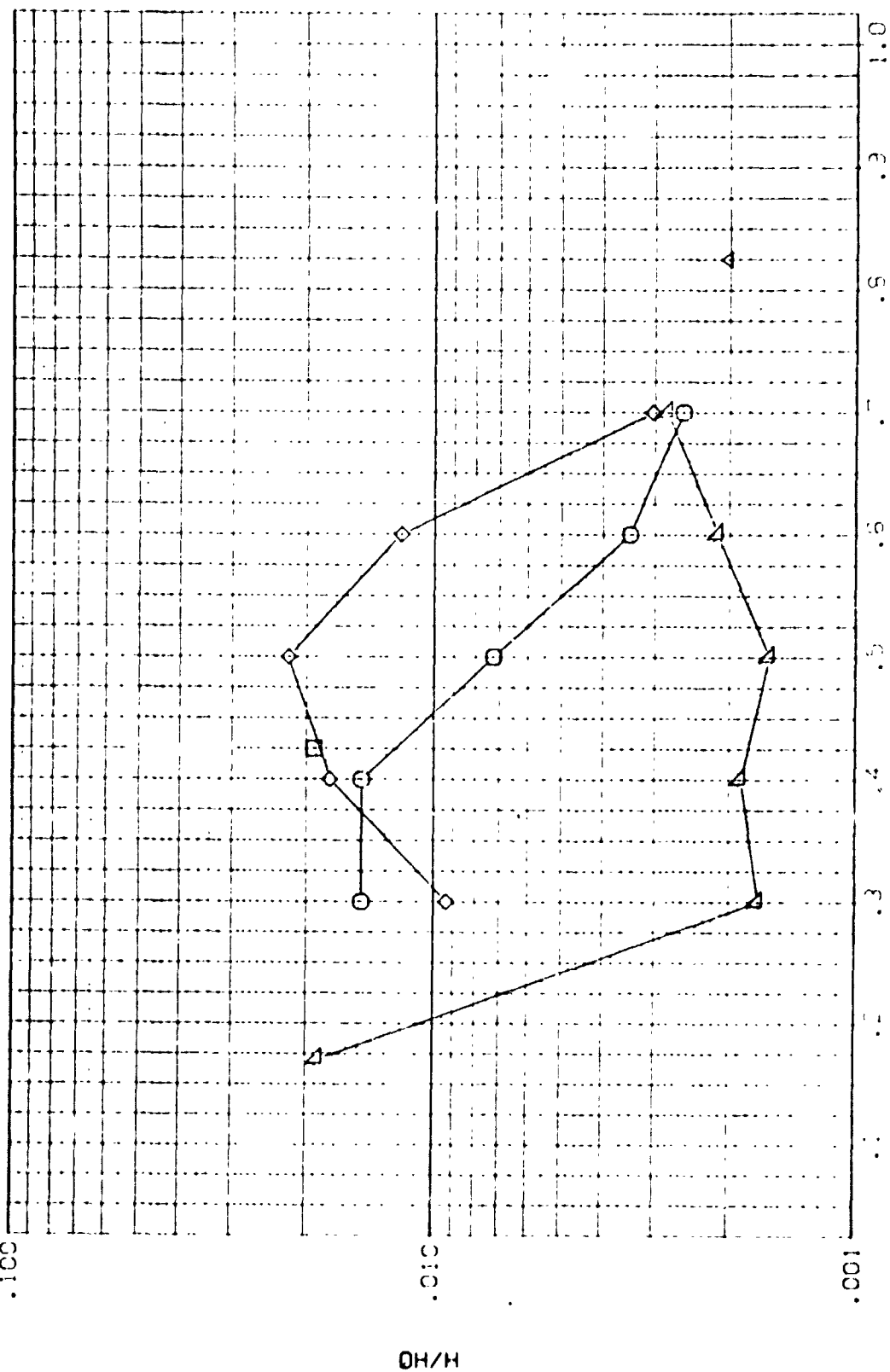


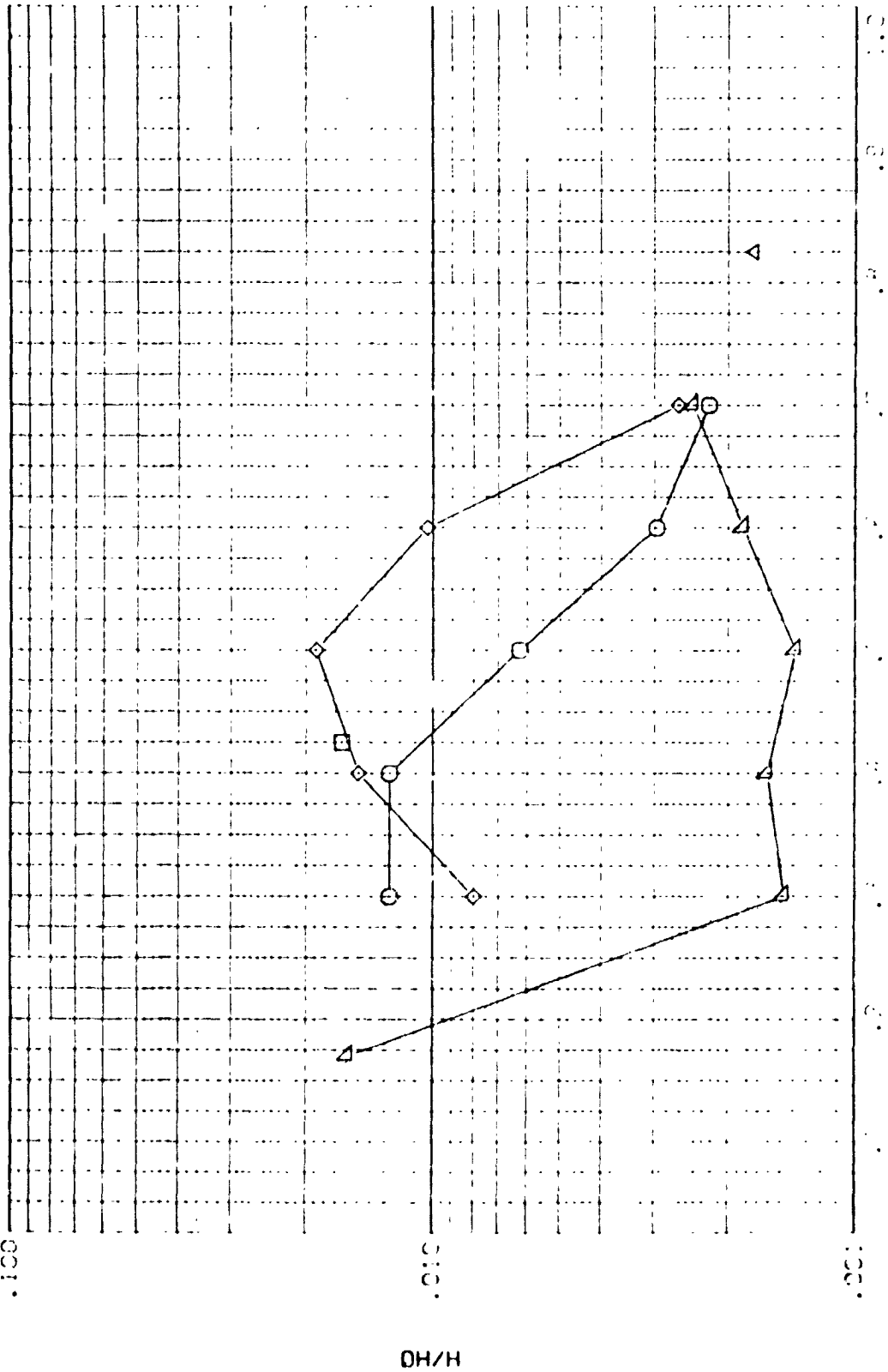
FIG 15
LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
FUSELAGE UPPER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

(R0LS05) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 ALPHA 35.000
 MACH 8.000
 .000

W.A./M² 10.000
 .900

375.000
 400.000
 425.000
 450.000
 475.000
 500.000
 .100



LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 FUSELAGE UPPER SURFACE DISTRIBUTION AT 35 DEG. ANGLE OF ATTACK

C-3

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (PCLB02) | △ | CH-4 B22C75M4/74111 FUSELAGE LOWER SURFACE | 20.000 | .000 | 8.000 |
| (PCLB03) | ◇ | CH-4 B22C75M4/74111 FUSELAGE LOWER SURFACE | 23.000 | .000 | 8.000 |
| (PCLB04) | □ | CH-4 B22C75M4/74111 FUSELAGE LOWER SURFACE | 30.000 | .000 | 8.000 |
| (PCLB05) | ○ | CH-4 B22C75M4/74111 FUSELAGE LOWER SURFACE | 35.000 | .000 | 8.000 |

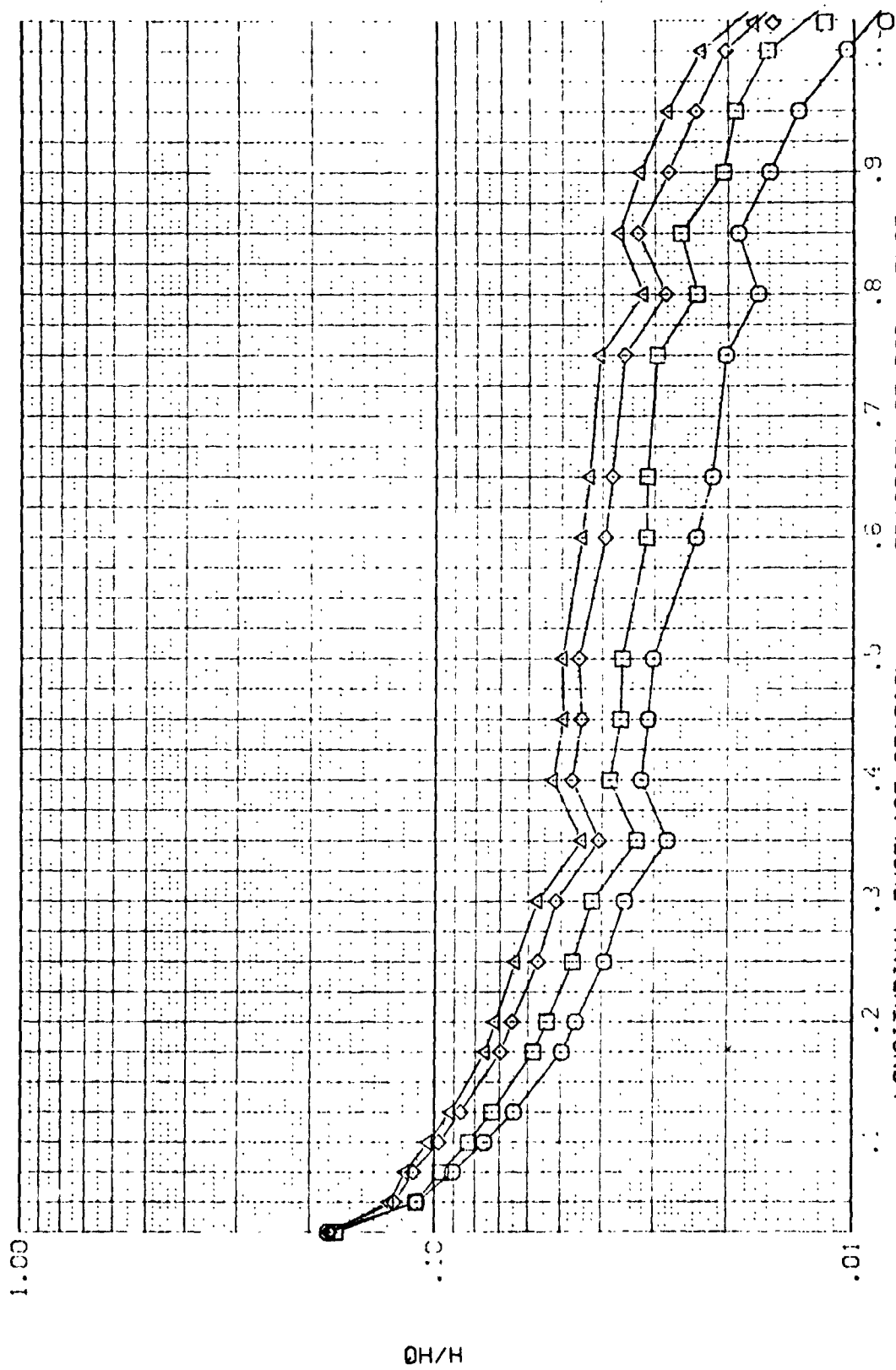


FIG 16 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

Re/L = 1.000 $\frac{W}{V} = .850$ S.P. = .000

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (R01B02) | Q | CH14 B22C7FSM47W111 FUSELAGE LOWER SURFACE | 20.000 | .000 | 8.000 |
| (R01B03) | Q | 3-14 B22C7FSM47W111 FUSELAGE LOWER SURFACE | 25.000 | .000 | 8.000 |
| (P01B04) | X | CH14 B22C7FSM47W111 FUSELAGE LOWER SURFACE | 30.000 | .000 | 8.000 |
| (R01B05) | X | CH14 B22C7FSM47W111 FUSELAGE LOWER SURFACE | 35.000 | .000 | 8.000 |

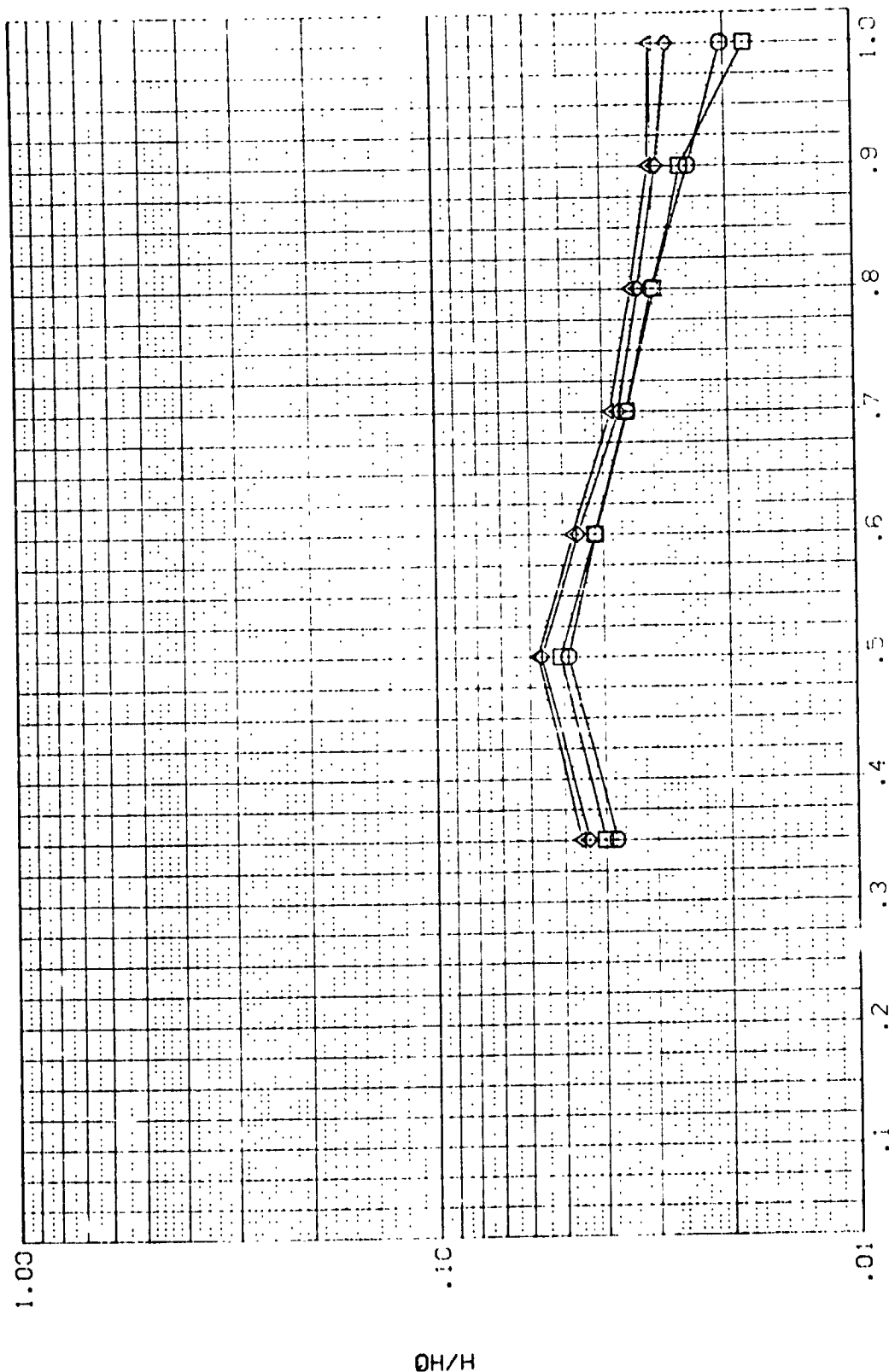


FIG 16 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

RN/L = 1.000 HAW/HT = .850 B.P. = 117.000 PAGE 164

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (RQ.BC2) | □ | CH14 B22C7FS4V7W111 FUSELAGE LOWER SURFACE | 20.000 | .000 | 8.000 |
| (RQ.BC3) | ◇ | CH14 B22C7FS4V7W111 FUSELAGE LOWER SURFACE | 25.000 | .000 | 8.000 |
| (RQ.BC4) | △ | CH14 B22C7FS4V7W111 FUSELAGE LOWER SURFACE | 30.000 | .000 | 8.000 |
| (RQ.BC5) | ○ | CH14 B22C7FS4V7W111 FUSELAGE LOWER SURFACE | 35.000 | .000 | 8.000 |

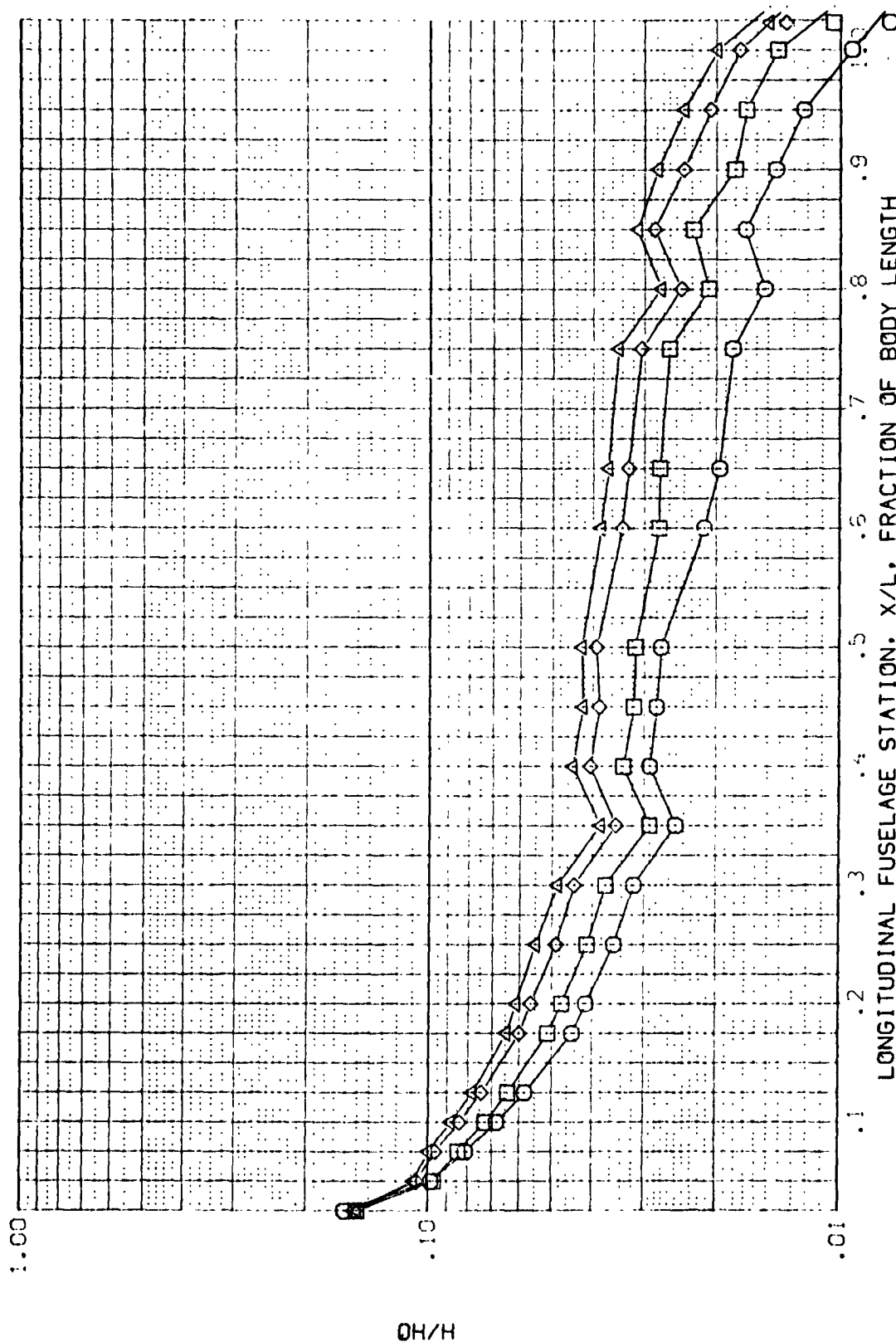


FIG 16

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (RQ1B02) | ○ | 0414 B22C7F5V47W111 FUSELAGE LOWER SURFACE | 20.000 | .000 | 8.000 |
| (RQ1B03) | ○ | 0414 B22C7F5V47W111 FUSELAGE LOWER SURFACE | 25.000 | .000 | 8.000 |
| (RQ1B04) | ○ | 0414 B22C7F5V47W111 FUSELAGE LOWER SURFACE | 30.000 | .000 | 8.000 |
| (RQ1B05) | ○ | 0414 B22C7F5V47W111 FUSELAGE LOWER SURFACE | 35.000 | .000 | 8.000 |

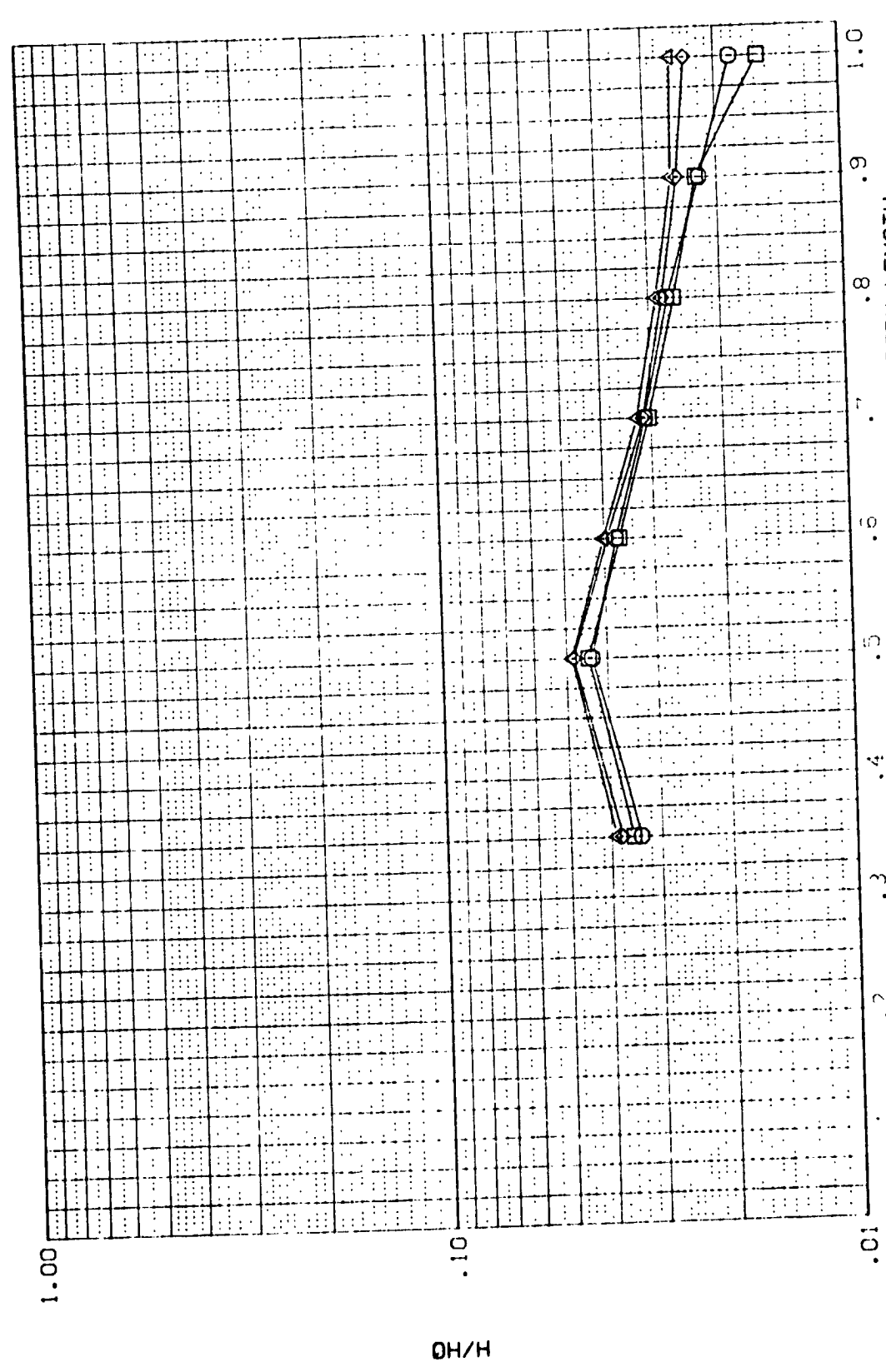


FIG 16 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

RN/L = 1.000 HAW/H = .900 R.P. = 117.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

ALPHA BETA MACH

Q-14 B22C7FS4V7#111 FUSELAGE LOWER SURFACE
Q-14 B22C7FS4V7#111 FUSELAGE LOWER SURFACE
Q-14 B22C7FS4V7#111 FUSELAGE LOWER SURFACE
Q-14 B22C7FS4V7#111 FUSELAGE LOWER SURFACE

(RCLB02)
(RCLB03)
(RCLB04)
(RCLB05)

20.000
25.000
30.000
35.000

.000
.000
.000
.000

8.000
8.000
8.000
8.000

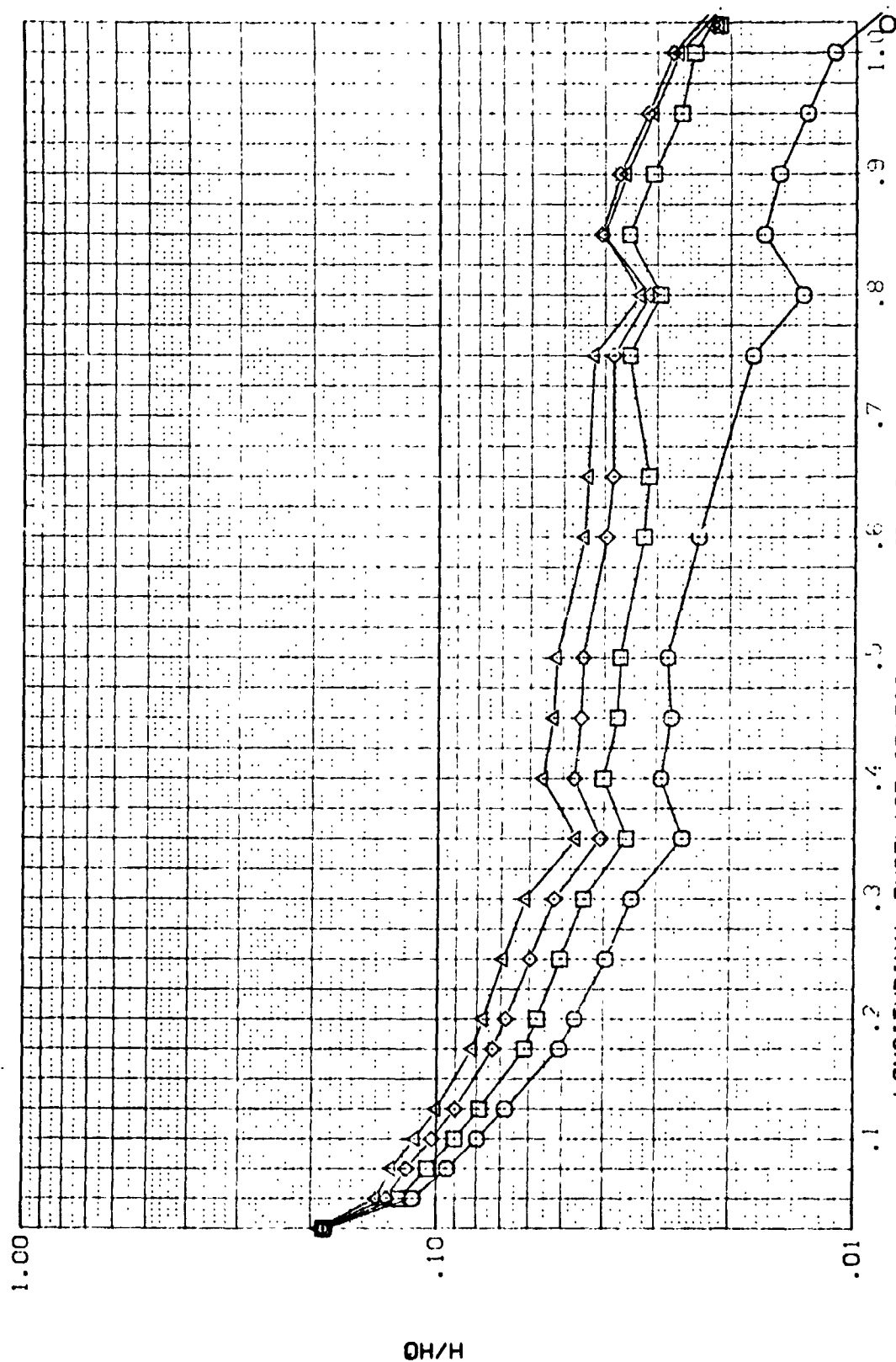


FIG 16 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

PN/L = 3.000 MACH = 8.000

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (RQ1802) | □ | OH14 B220755477*111 FUSELAGE LOWER SURFACE | 20.000 | .000 | 8.000 |
| (RQ1803) | □ | OH14 B220755477*111 FUSELAGE LOWER SURFACE | 25.000 | .000 | 8.000 |
| (RQ1804) | □ | OH14 B220755477*111 FUSELAGE LOWER SURFACE | 30.000 | .000 | 8.000 |
| (RQ1805) | △ | OH14 B220755477*111 FUSELAGE LOWER SURFACE | 35.000 | .000 | 8.000 |

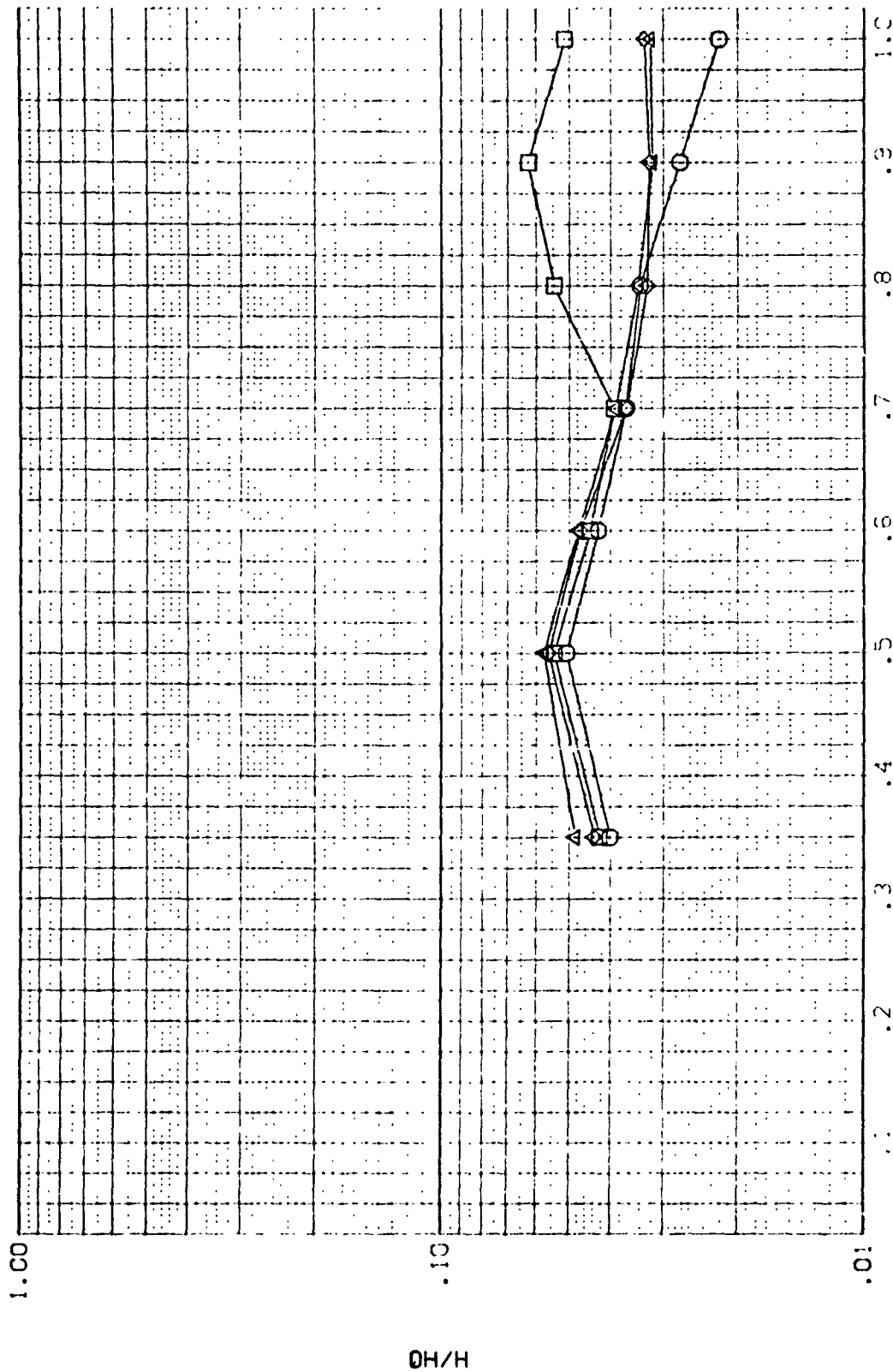


FIG 16 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

RN/L = 3.000 $\alpha = 117.000$ B.F. = 117.000

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|---|---|--------|------|-------|
| (PCLB22) |  | CH14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE | 20.000 | .000 | 8.000 |
| (PCLB23) |  | CH14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE | 25.000 | .000 | 8.000 |
| (PCLB24) |  | CH14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE | 30.000 | .000 | 8.000 |
| (PCLB25) |  | CH14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE | 35.000 | .000 | 8.000 |

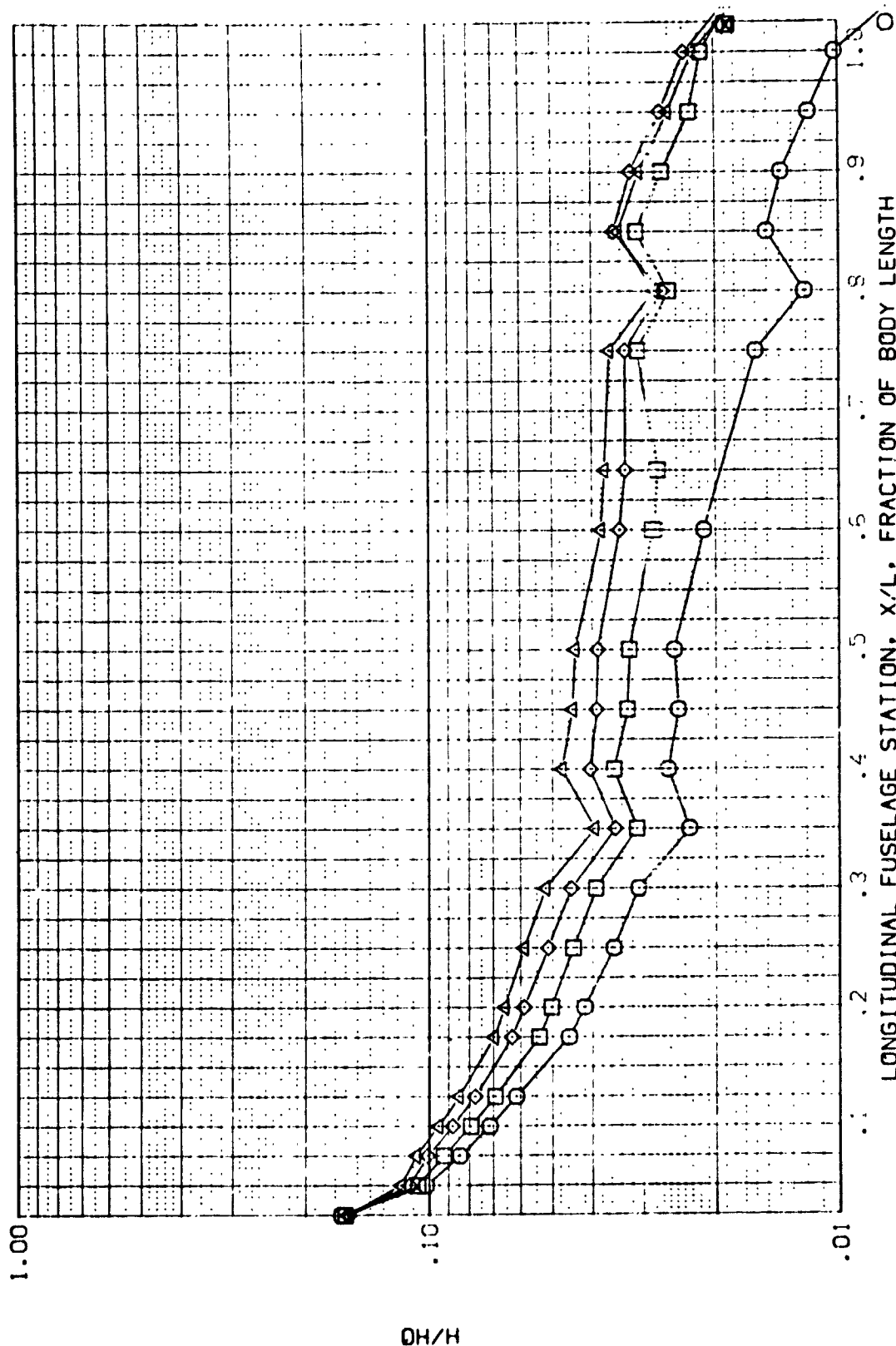


FIG 16

DATA SET SYMBOL CONFIGURATION DESCRIPTION ALPHA BETA MACH

| | | | | | | |
|---------|------|----------------|------------------------|--------|------|-------|
| 190.000 | CH14 | B2207FS4V7W111 | FUSELAGE LOWER SURFACE | 20.000 | .000 | 8.000 |
| 190.000 | CH14 | B2207FS4V7W111 | FUSELAGE LOWER SURFACE | 25.000 | .000 | 8.000 |
| 190.000 | CH14 | B2207FS4V7W111 | FUSELAGE LOWER SURFACE | 30.000 | .000 | 8.000 |
| 190.000 | CH14 | B2207FS4V7W111 | FUSELAGE LOWER SURFACE | 35.000 | .000 | 8.000 |

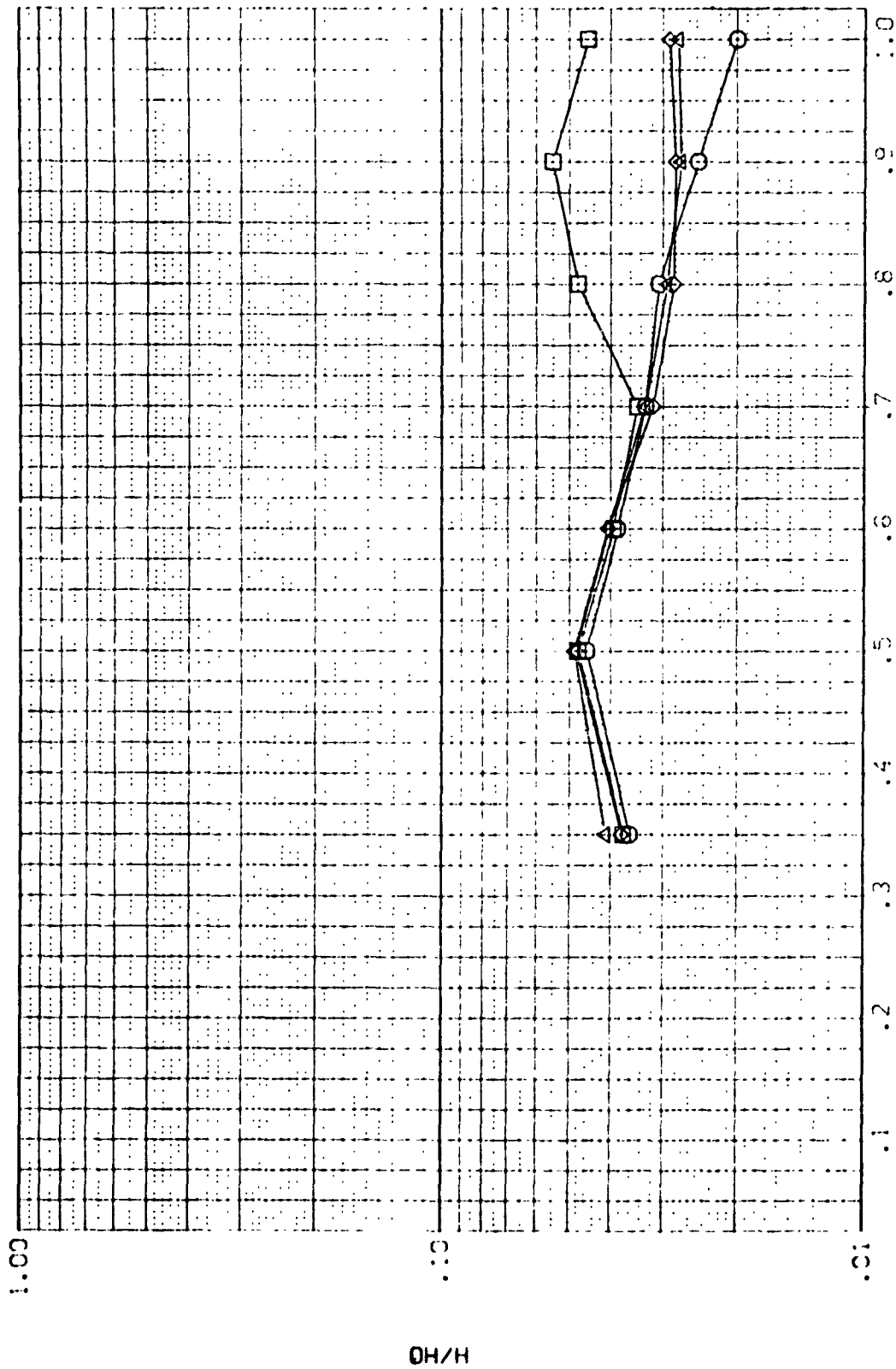


FIG 16 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

RN/L = 3.000 HAW/H = .900 B.L. = 117.000 PAGE 170

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(POLBC2)
(POLBC3)
(POLBC4)
(POLBC5)

DATA NOT AVAILABLE

CH-14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE
CH-14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE
CH-14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE

ALPHA BETA MACH
20.000 .000 8.000
25.000 .000 8.000
30.000 .000 8.000
35.000 .000 8.000

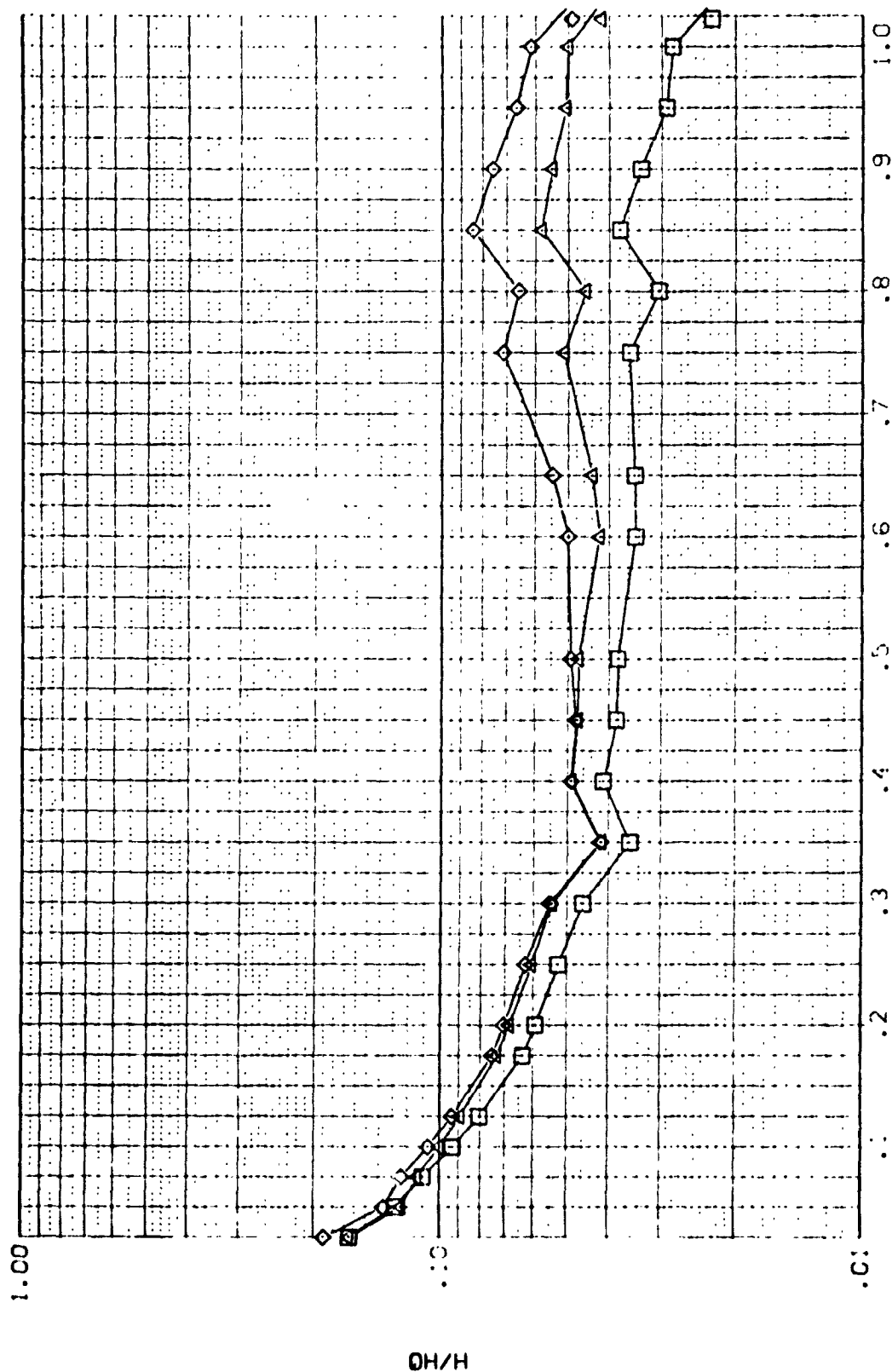


FIG 16 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

PNL = 4.000 HAWK = .850 B.F. = .000

DATA SET SYMPL CONFIGURATION DESCRIPTION
 (PQ.BC2) DATA NOT AVAILABLE
 (PQ.BC3) CH-14 B22C7F5V417W111 FUSELAGE LOWER SURFACE
 (PQ.BC4) CH-14 B22C7F5V417W111 FUSELAGE LOWER SURFACE
 (PQ.BC5) CH-14 B22C7F5V417W111 FUSELAGE LOWER SURFACE

ALPHA BET. MACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000

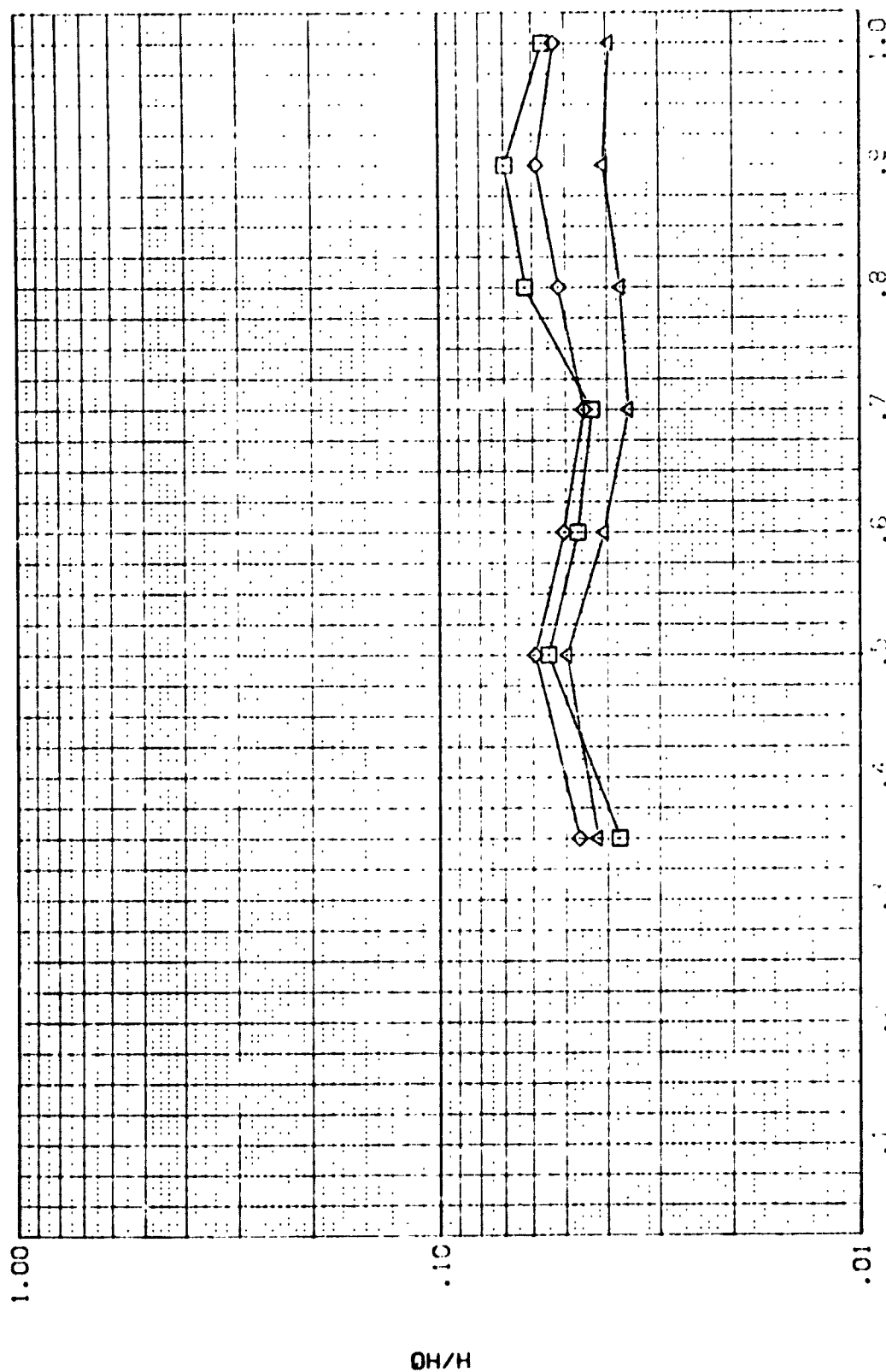


FIG 16 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
 VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

RV/L = 4.000 WAW/HT = .850 RV/L = 117.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RCLBC2) DATA NOT AVAILABLE
 (RCLBC3) CH-14 B22C7FSM477111 FUSELAGE LOWER SURFACE
 (RCLBC4) CH-14 B22C7FSM477111 FUSELAGE LOWER SURFACE
 (RCLBC5) CH-14 B22C7FSM477111 FUSELAGE LOWER SURFACE

ALPHA BETA MACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000

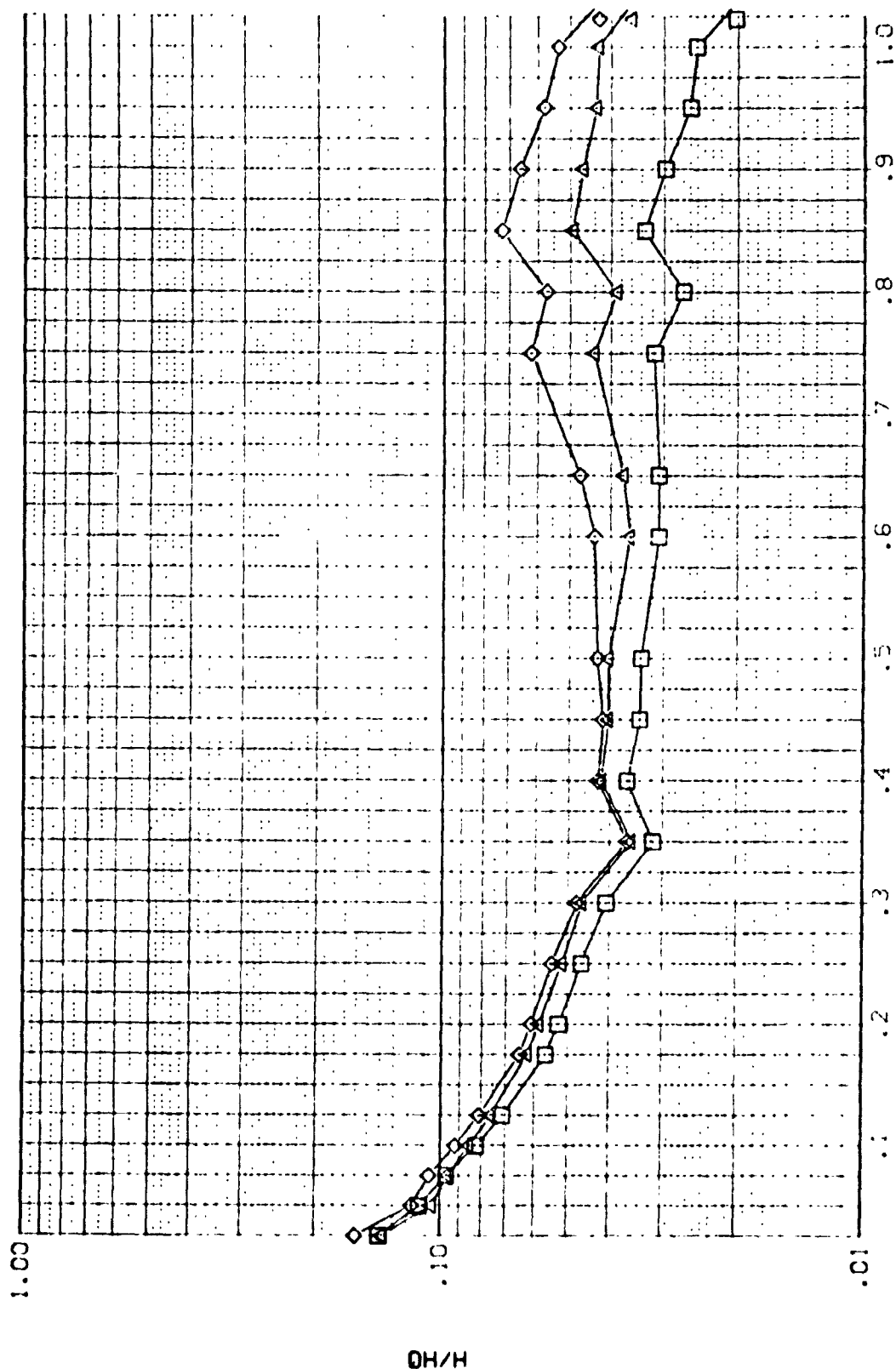


FIG 16 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
 VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

REMARKS = 4.000 5.000 6.000 7.000 8.000 9.000 10.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(PCLB22)
(PCLB23)
(PCLB24)
(PCLB25)

DATA NOT AVAILABLE
Q14 B22CF5477111 FUSELAGE LOWER SURFACE
Q14 B22CF5477111 FUSELAGE LOWER SURFACE
Q14 B22CF5477111 FUSELAGE LOWER SURFACE

ALPHA BETA MACH
20.000 .000 8.000
25.000 .000 8.000
30.000 .000 8.000
35.000 .000 8.000

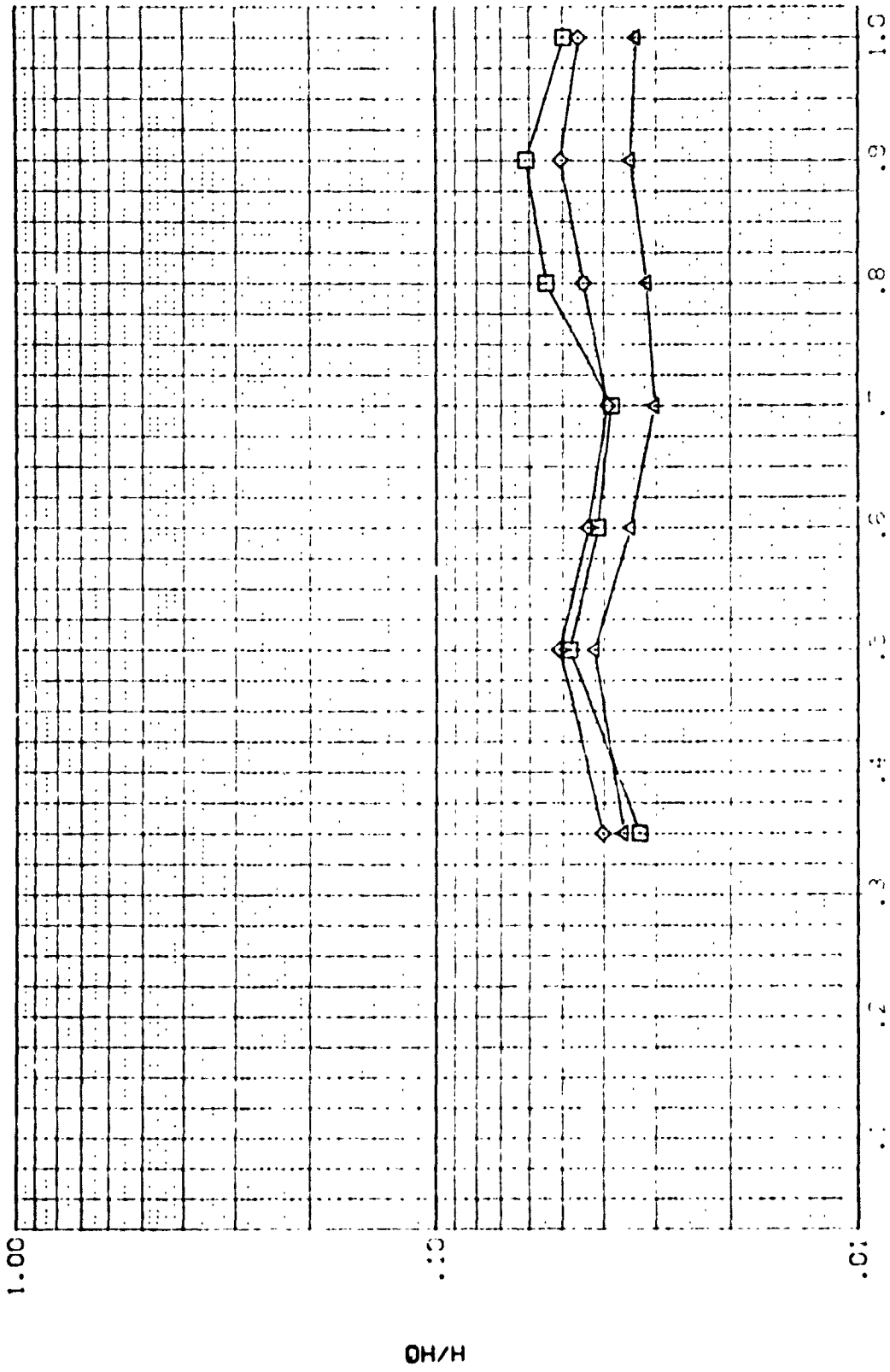


FIG 16 LONGITUDINAL FUSELAGE STATION. X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (P2-BC2) DATA NOT AVAILABLE
 (P2-BC3) DATA NOT AVAILABLE
 (P2-BC4) DATA NOT AVAILABLE
 (P2-BC5) DATA NOT AVAILABLE

ALPHA BETA MACH
 20.000 0.000 8.000
 25.000 0.000 8.000
 30.000 0.000 8.000
 35.000 0.000 8.000

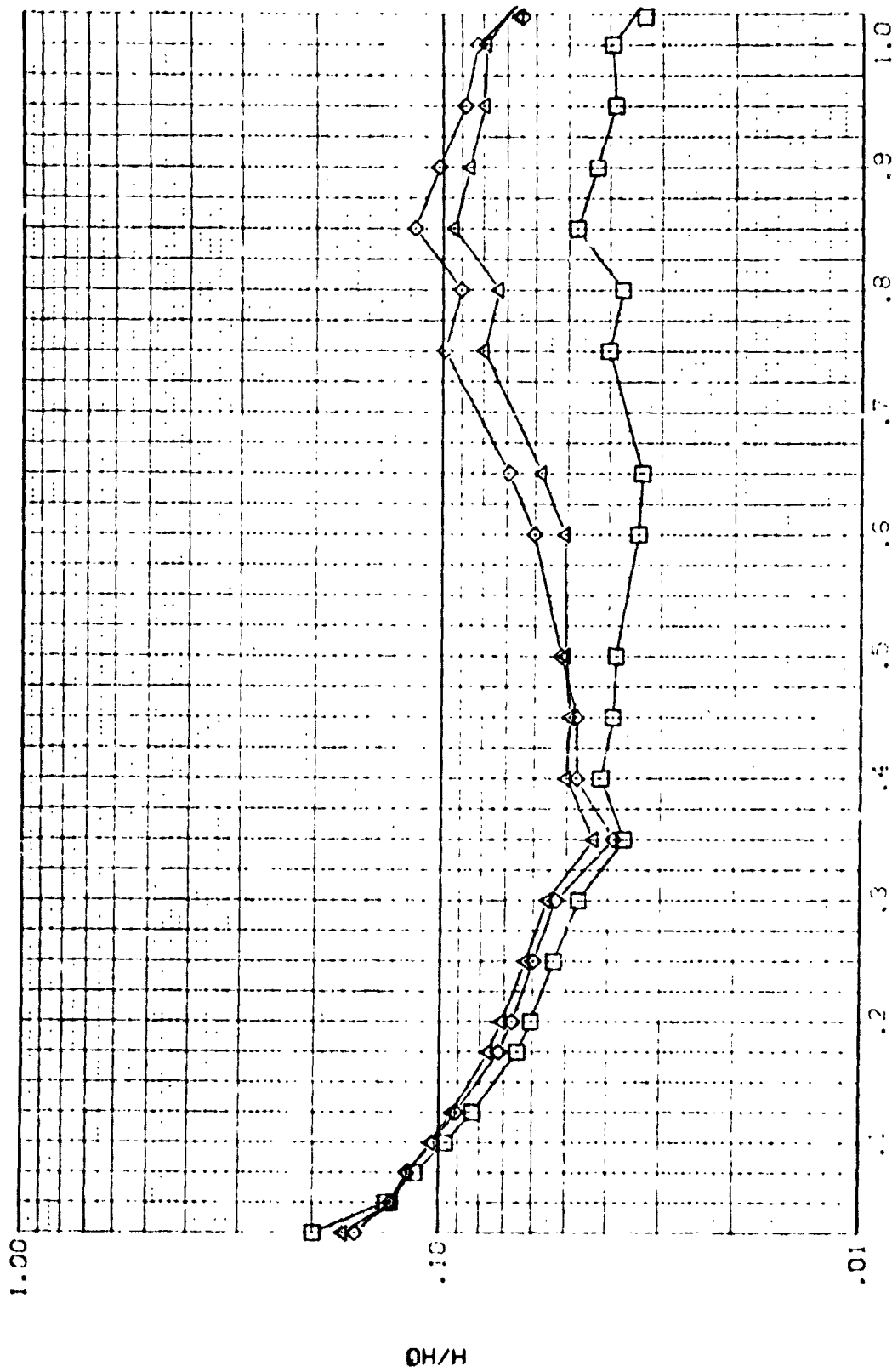


FIG 16 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ROLB02) DATA NOT AVAILABLE
 (POLB03) CH14 B22C7FSM4/7M111 FUSELAGE LOWER SURFACE
 (POLB04) CH14 B22C7FSM4/7M111 FUSELAGE LOWER SURFACE
 (ROLB05) CH14 B22C7FSM4/7M111 FUSELAGE LOWER SURFACE

ALPHA BETA MACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000

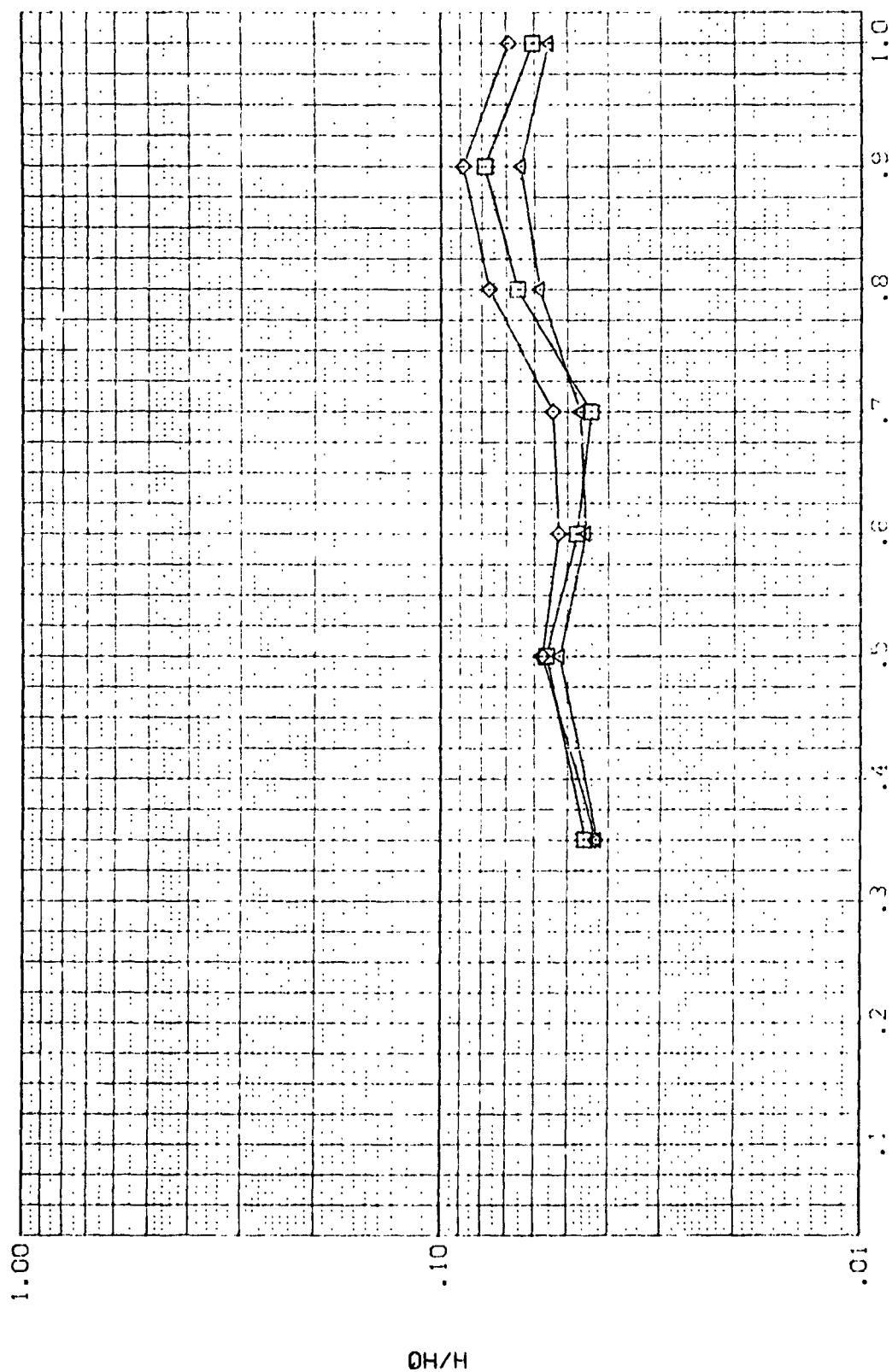


FIG 16 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

RN/L = 5.000 HAWK - 117.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RQLB02)
(RQLB03)
(RQLB04)
(RQLB05)

DATA NOT AVAILABLE

C-14 B22C7FSM4V7*111 FUSELAGE LOWER SURFACE
C-14 B22C7FSM4V7*111 FUSELAGE LOWER SURFACE
C-14 B22C7FSM4V7*111 FUSELAGE LOWER SURFACE

ALPHA BETA MACH
20.000 8.000
25.000 8.000
30.000 8.000
35.000 8.000

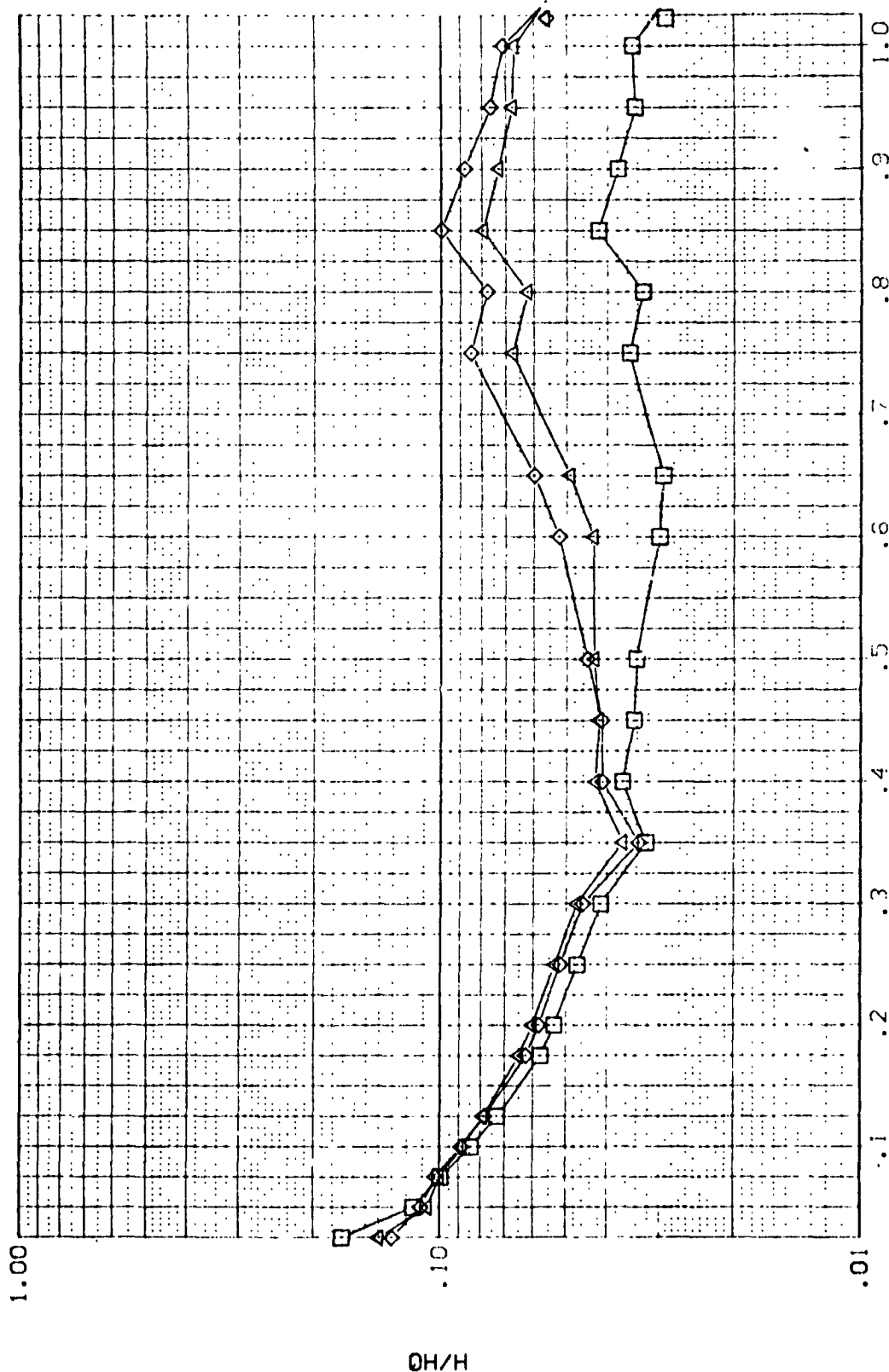


FIG 16 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

PN/L = 5.000 MACH = 8.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

| | |
|----------|--|
| (RQLB02) | DATA NOT AVAILABLE |
| (RQLB03) | CH14 B22C7F54V7W111 FUSELAGE LOWER SURFACE |
| (RQLB04) | CH14 B22C7F54V7W111 FUSELAGE LOWER SURFACE |
| (RQLB05) | CH14 B22C7F54V7W111 FUSELAGE LOWER SURFACE |

ALPHA BETA MACH

| | | |
|--------|------|-------|
| 20.000 | .000 | 8.000 |
| 25.000 | .000 | 8.000 |
| 30.000 | .000 | 8.000 |
| 35.000 | .000 | 8.000 |

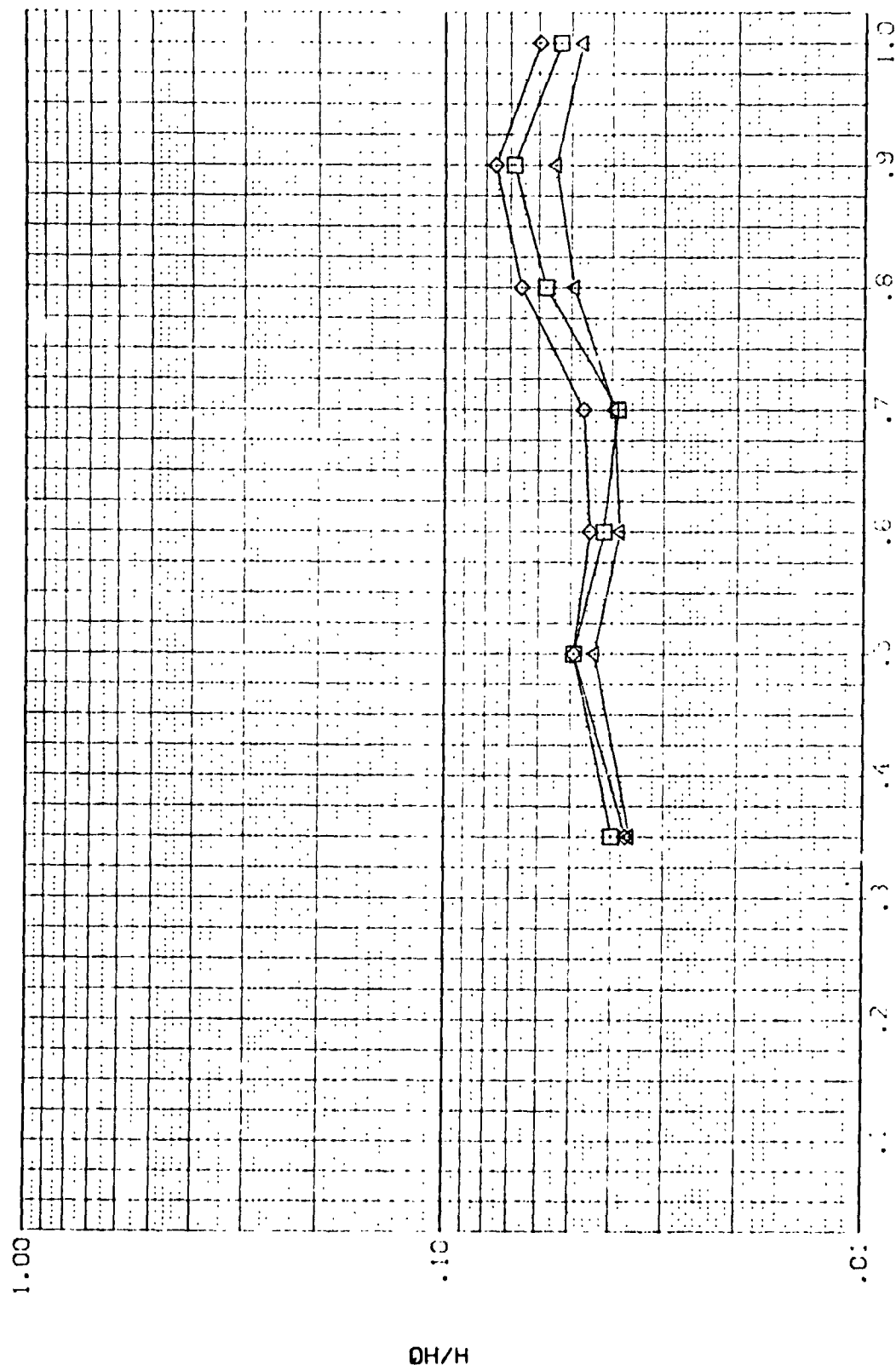


FIG 16 LONGITUDINAL FUSELAGE STATION. X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

RN/L = 5.000 HAW/HT = .900 R.P. = 117.000

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (PCLB02) | □ | C-14 B22C7FS4.7#111 FUSELAGE LOWER SURFACE | 20.000 | .000 | 8.000 |
| (PCLB03) | ○ | C-14 B22C7FS4.7#111 FUSELAGE LOWER SURFACE | 25.000 | .100 | 8.000 |
| (PCLB04) | △ | C-14 B22C7FS4.7#111 FUSELAGE LOWER SURFACE | 30.000 | .100 | 8.000 |
| (PCLB05) | ◇ | C-14 B22C7FS4.7#111 FUSELAGE LOWER SURFACE | 35.000 | .100 | 8.000 |

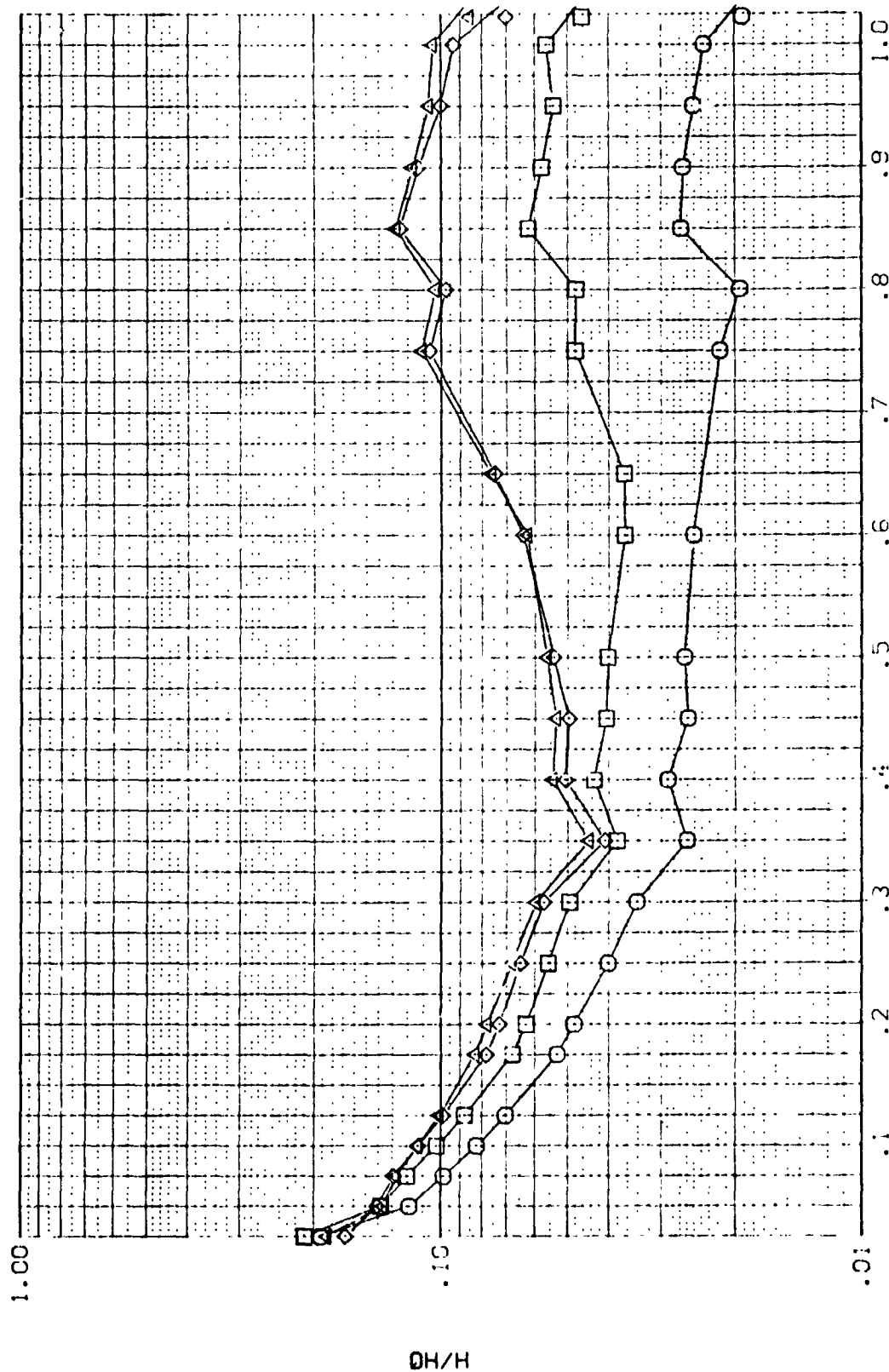


FIG 16 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

$R/L = 8.000$ $M/H = 8.000$ $B/L = 8.000$

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BET | MACH |
|----------|--------|--|--------|------|-------|
| (ROLBC2) | ○ | C-14 B22C75M4V7W111 FUSELAGE LOWER SURFACE | 20.000 | .000 | 8.000 |
| (ROLBC3) | △ | C-14 B22C75M4V7W111 FUSELAGE LOWER SURFACE | 25.000 | .000 | 8.000 |
| (POLBC4) | □ | C-14 B22C75M4V7W111 FUSELAGE LOWER SURFACE | 30.000 | .000 | 8.000 |
| (POLBC5) | × | C-14 B22C75M4V7W111 FUSELAGE LOWER SURFACE | 35.000 | .000 | 8.000 |

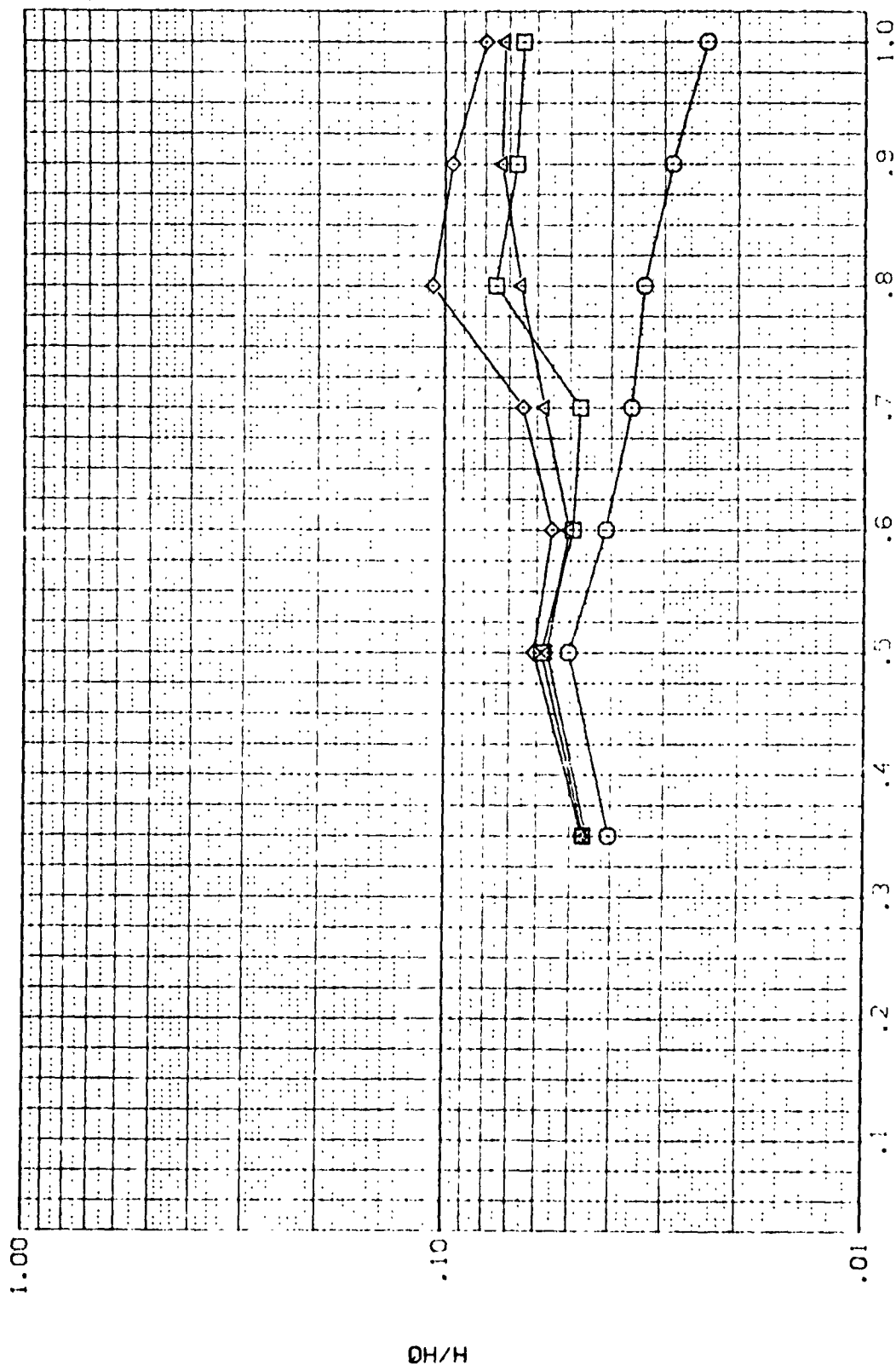


FIG 16 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

RN/L = 6.000 H+H/HT = .850 B.F. = 117.000

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|-------------|---|--------|------|-------|
| (PQLB02) | \square | CH-14 B22C7FS4V7W111 FUSELAGE LOWER SURFACE | 20.000 | .000 | 8.000 |
| (PQLB03) | \triangle | CH-14 B22C7FS4V7W111 FUSELAGE LOWER SURFACE | 25.000 | .010 | 8.000 |
| (PQLB04) | \diamond | CH-14 B22C7FS4V7W111 FUSELAGE LOWER SURFACE | 30.000 | .010 | 8.000 |
| (PQLB05) | \circ | CH-14 B22C7FS4V7W111 FUSELAGE LOWER SURFACE | 35.000 | .010 | 8.000 |

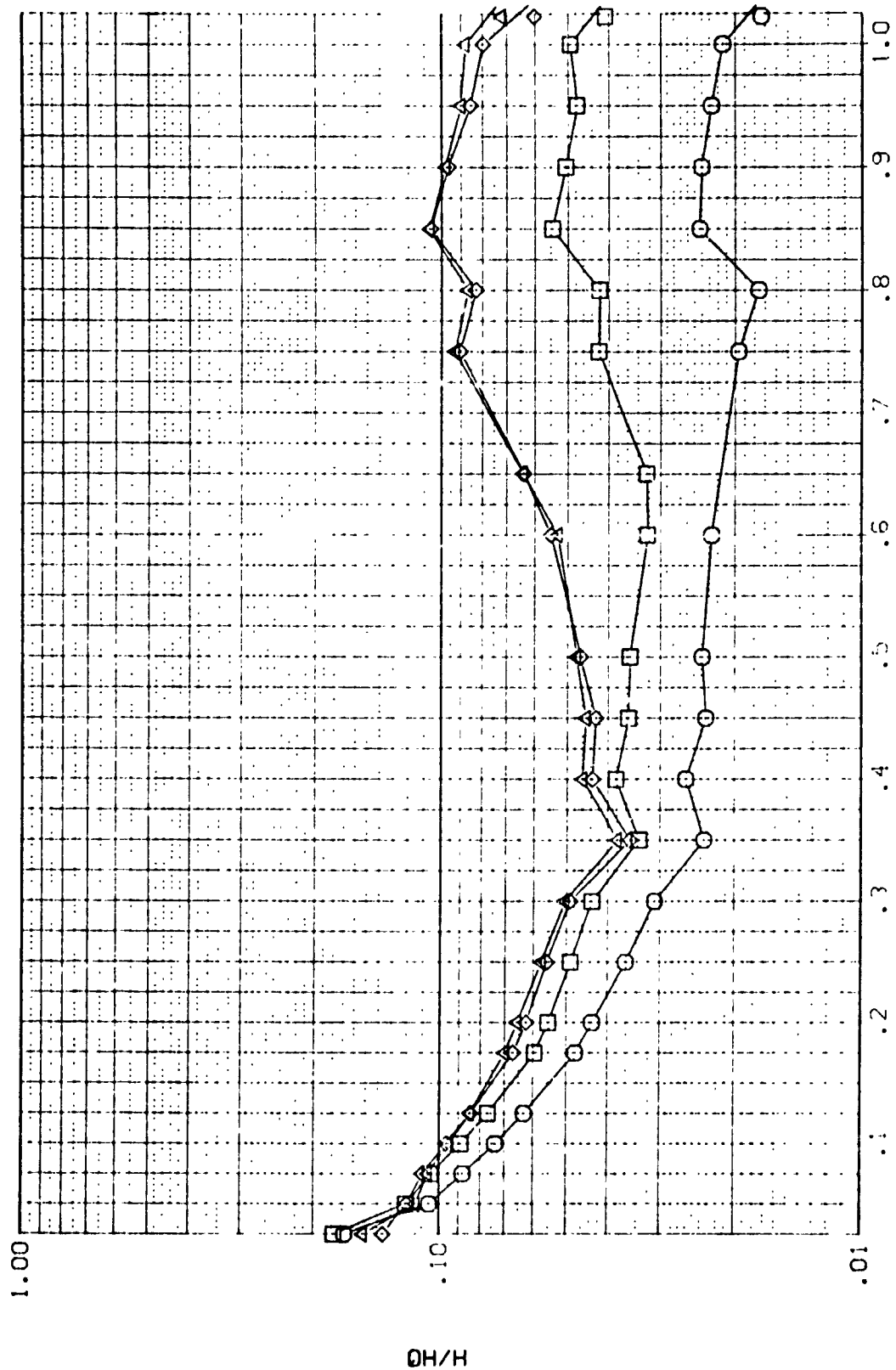


FIG 16 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|---|--------|------|-------|
| (PCLB02) | X | CH14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE | 20.000 | .000 | 8.000 |
| (PCLB03) | | CH14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE | 25.000 | .000 | 8.000 |
| (PCLB04) | | CH14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE | 30.000 | .000 | 8.000 |
| (PCLB05) | | CH14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE | 35.000 | .000 | 8.000 |

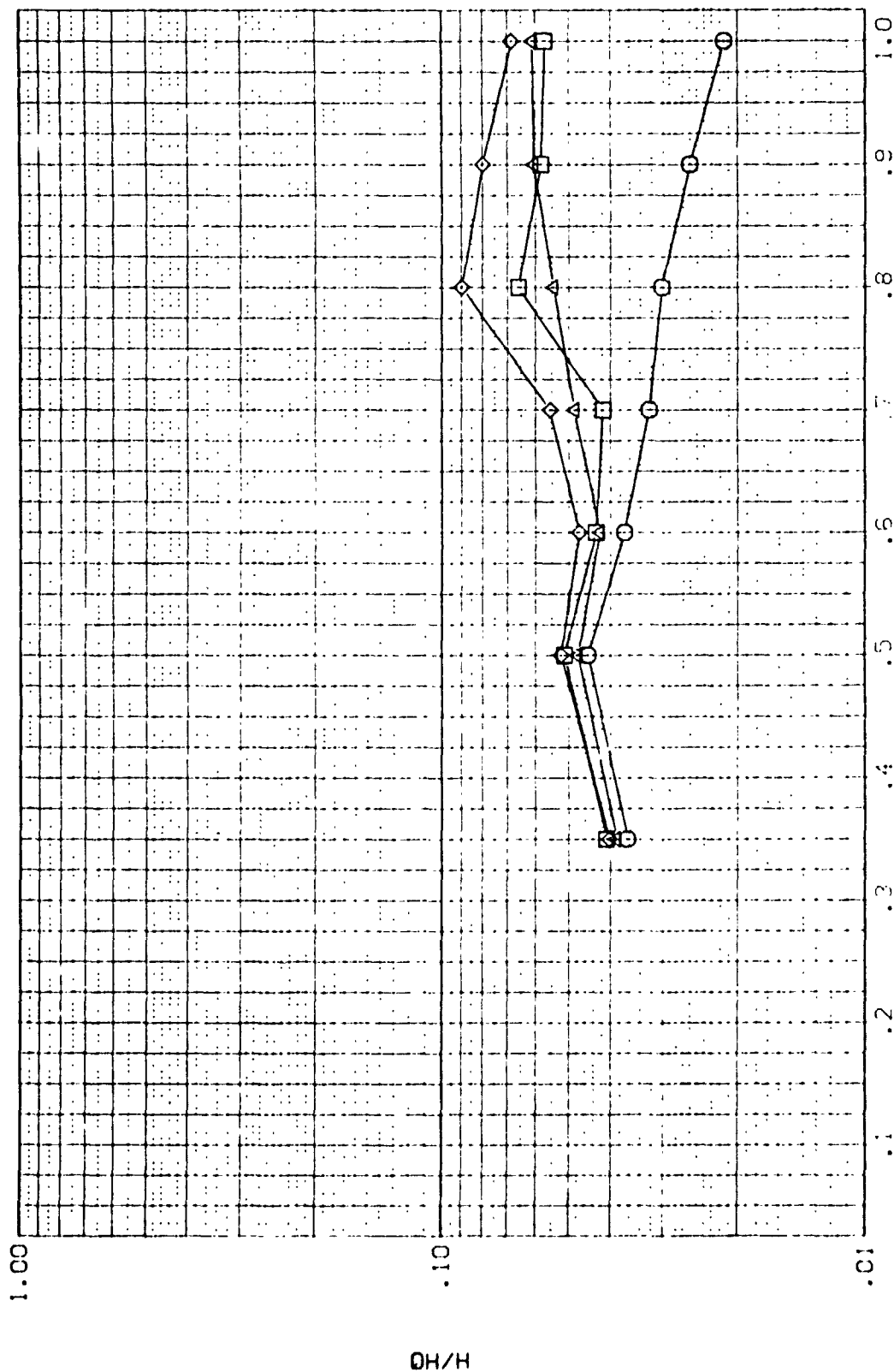


FIG 16 LONGITUDINAL FUSELAGE STATION. X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

RN/L = 6.000 HAW/HT = .900 R/L = 117.000

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|---|--------|------|-------|
| (RCLB02) | ○ | CH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE | 20.000 | .000 | 8.000 |
| (RCLB03) | △ | CH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE | 25.000 | .000 | 8.000 |
| (RCLB04) | □ | CH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE | 30.000 | .000 | 8.000 |
| (RCLB05) | ◇ | CH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE | 35.000 | .000 | 8.000 |

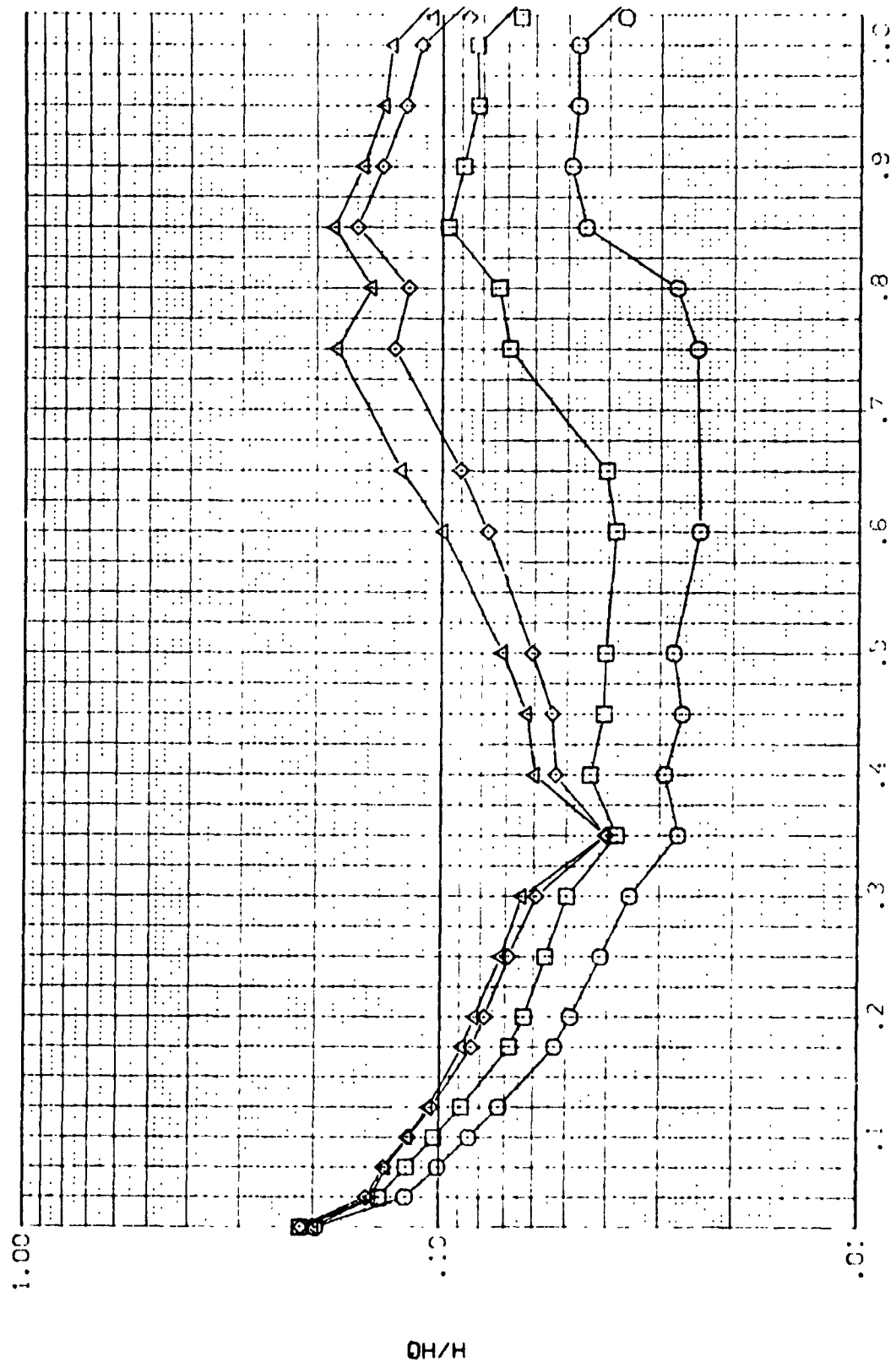


FIG 16 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

OH/H = 0.000 HAWK = 0.850 BETA = 0.000

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|---|--------|------|-------|
| (PC-BC2) | ○ | CH-14 B22C75M4.7W111 FUSELAGE LOWER SURFACE | 20.000 | .000 | 8.000 |
| (PC-BC3) | ○ | CH-14 B22C75M4.7W111 FUSELAGE LOWER SURFACE | 25.000 | .000 | 8.000 |
| (PC-BC4) | ○ | CH-14 B22C75M4.7W111 FUSELAGE LOWER SURFACE | 30.000 | .000 | 8.000 |
| (PC-BC5) | ○ | CH-14 B22C75M4.7W111 FUSELAGE LOWER SURFACE | 35.000 | .000 | 8.000 |

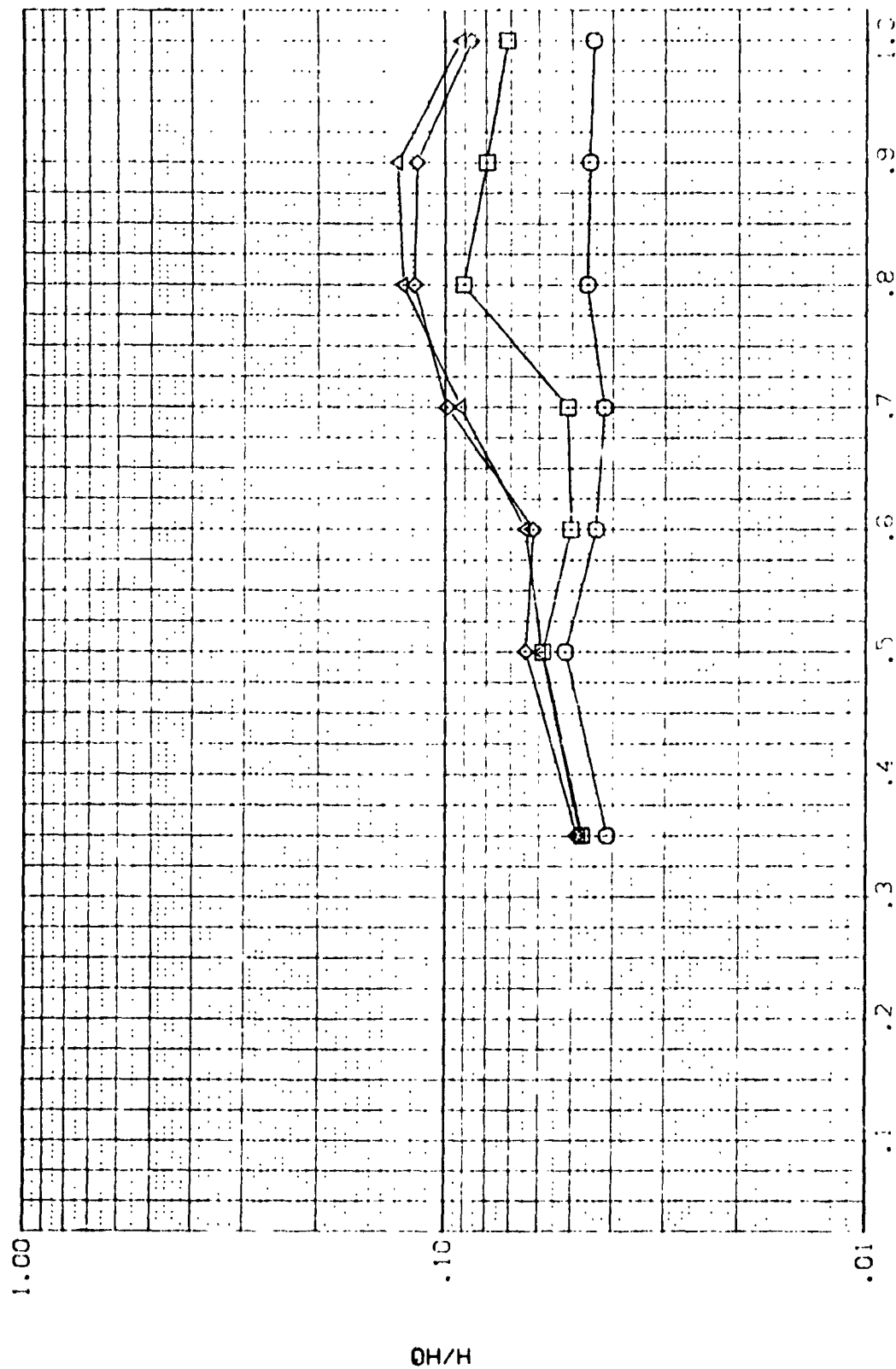


FIG 16 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

RN/L = 8.000 H/F = 0.850 S/L = 117.000

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|---|---|--------|------|-------|
| (ROLBC2) |  | OH14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE | 20.000 | .000 | 8.000 |
| (ROLB03) |  | OH14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE | 25.000 | .000 | 8.000 |
| (ROLB04) |  | OH14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE | 30.000 | .000 | 8.000 |
| (ROLB05) |  | OH14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE | 35.000 | .000 | 8.000 |

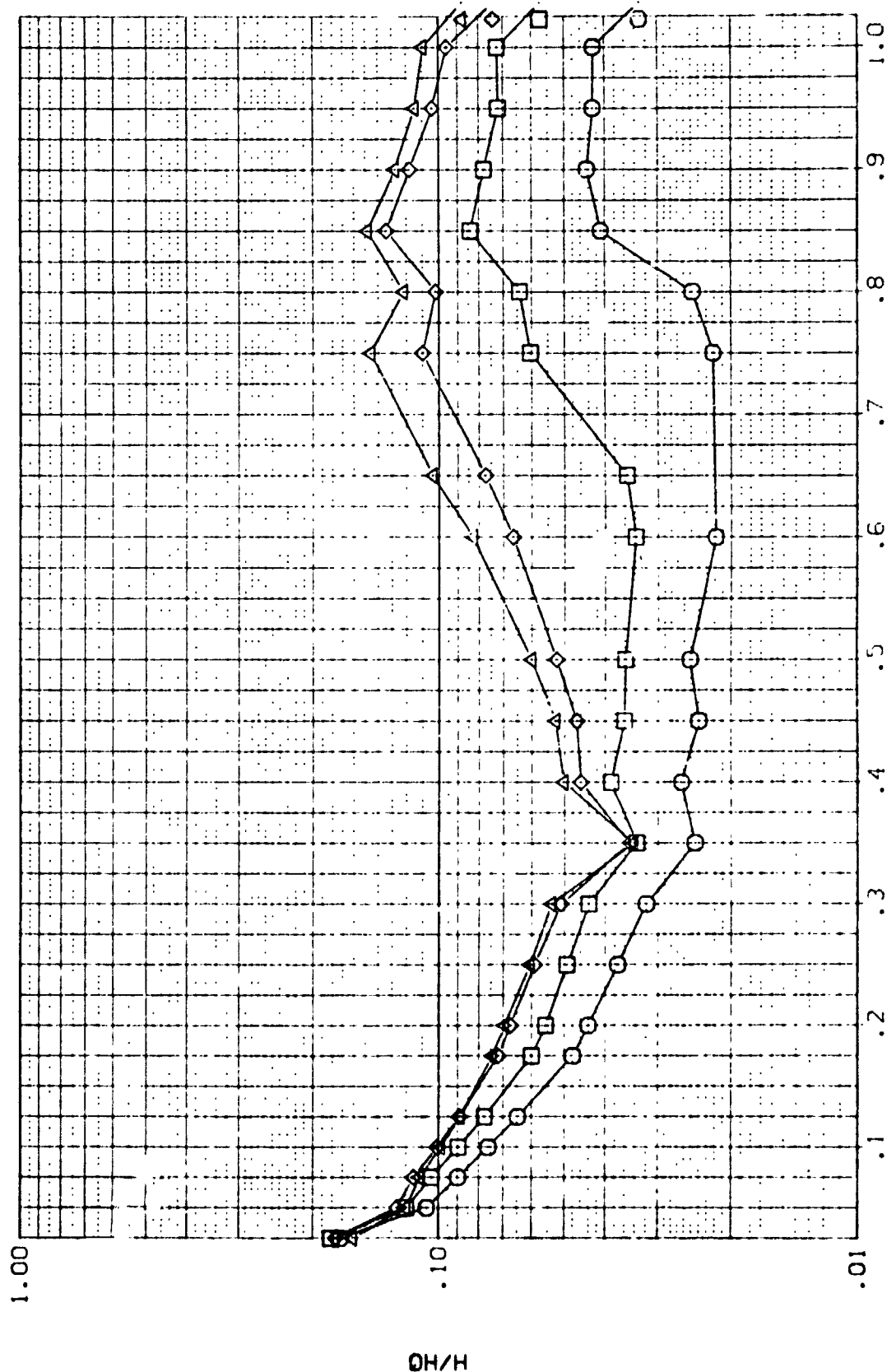


FIG 16 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|---|--------|------|-------|
| (ROLB02) | □ | OH14 B22C7F5M4V7M111 FUSELAGE LOWER SURFACE | 20.000 | .000 | 8.000 |
| (ROLB03) | □ | OH14 B22C7F5M4V7M111 FUSELAGE LOWER SURFACE | 25.000 | .000 | 8.000 |
| (ROLSC4) | △ | OH14 B22C7F5M4V7M111 FUSELAGE LOWER SURFACE | 30.000 | .000 | 8.000 |
| (ROLB05) | △ | OH14 B22C7F5M4V7M111 FUSELAGE LOWER SURFACE | 35.000 | .000 | 8.000 |

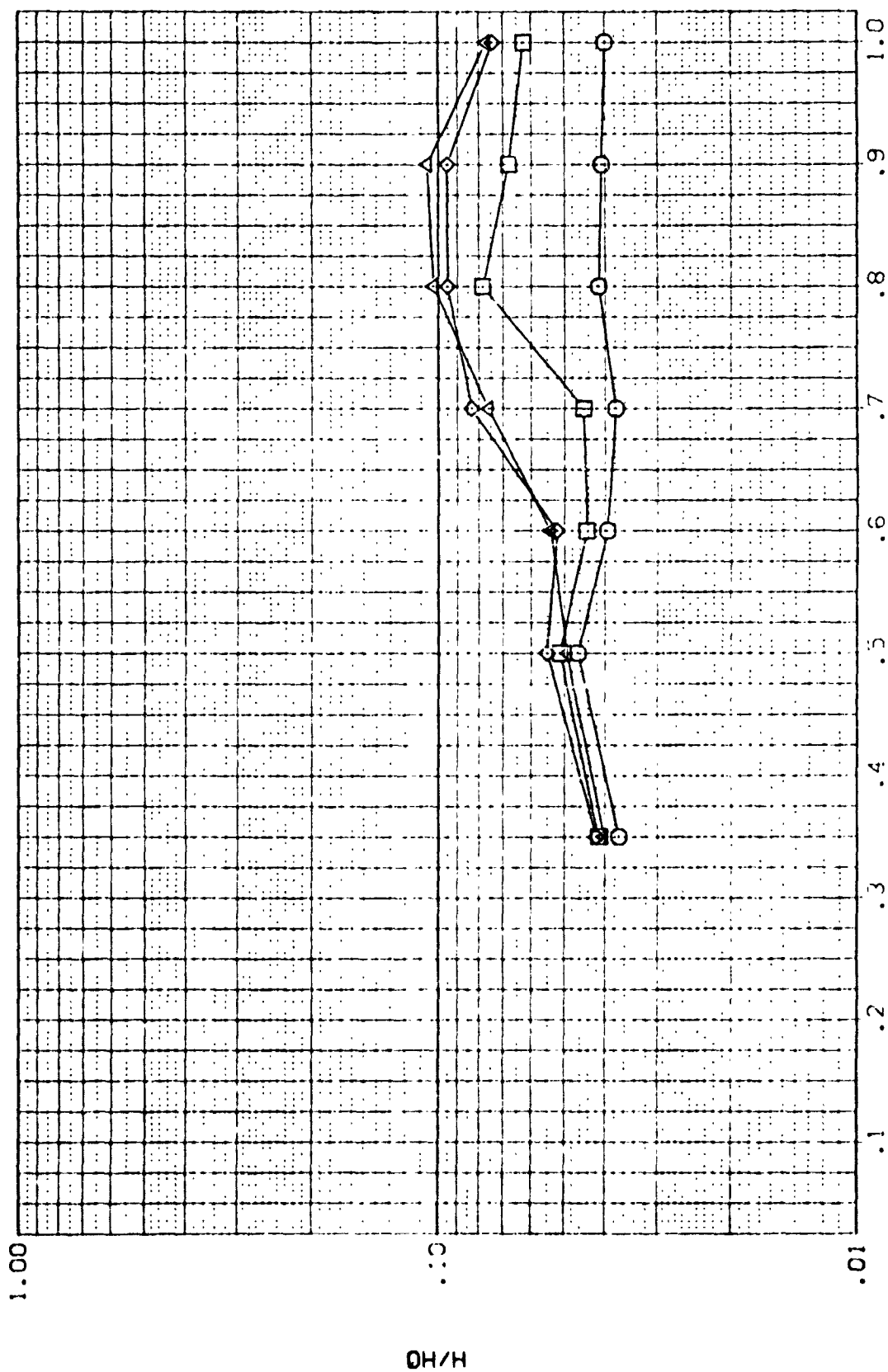


FIG 16 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

RN/L = 8.000 HAW/HT = .900 B.P. = 117.000

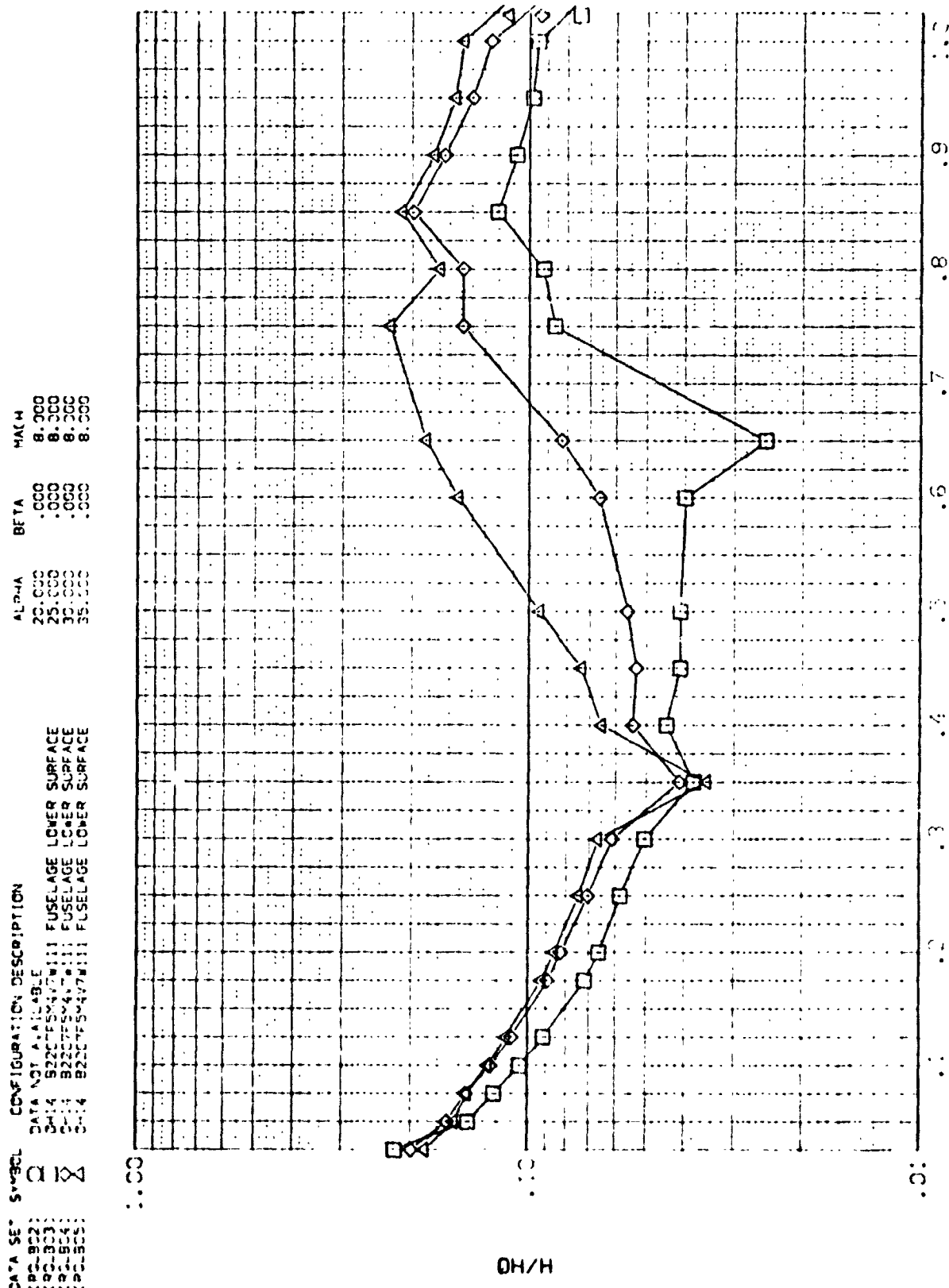


FIG 16 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (P0.302) DATA NOT AVAILABLE
 (P0.303) C-14 B22CTF54-T111 FUSELAGE LOWER SURFACE
 (P0.304) C-14 B22CTF54-T111 FUSELAGE LOWER SURFACE
 (P0.305) C-14 B22CTF54-T111 FUSELAGE LOWER SURFACE

ALPHA BETA MACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000

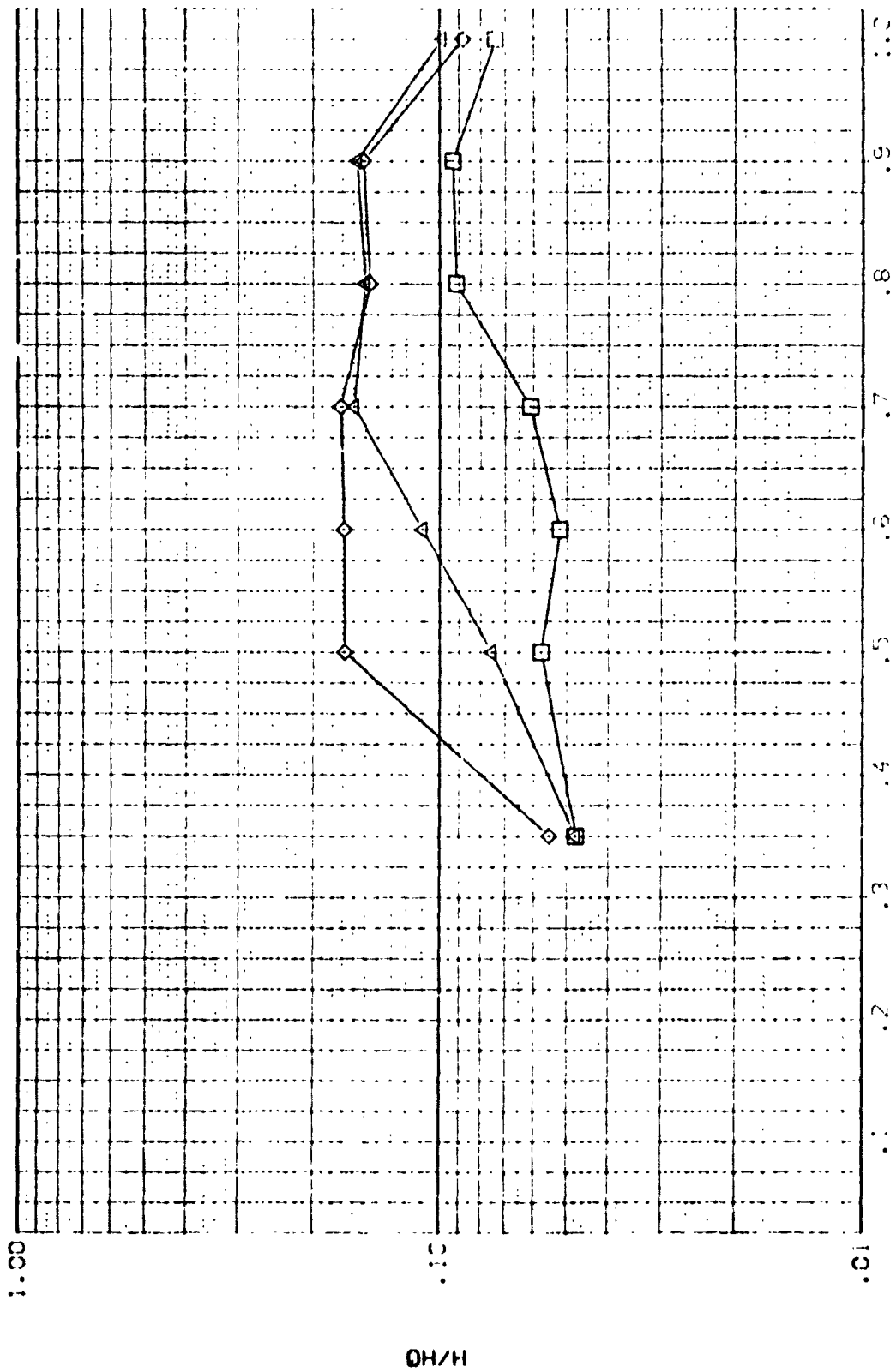


FIG 16 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
 VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(POLB22)
(POLB23)
(POLB24)
(POLB25)

DATA NOT AVAILABLE

B22075M4-1111 FUSELAGE LOWER SURFACE
B22075M4-1111 FUSELAGE LOWER SURFACE
B22075M4-1111 FUSELAGE LOWER SURFACE

ALPHA BETA WACH
20.000 .000 8.000
25.000 .000 8.000
30.000 .000 8.100
35.000 .000 8.100

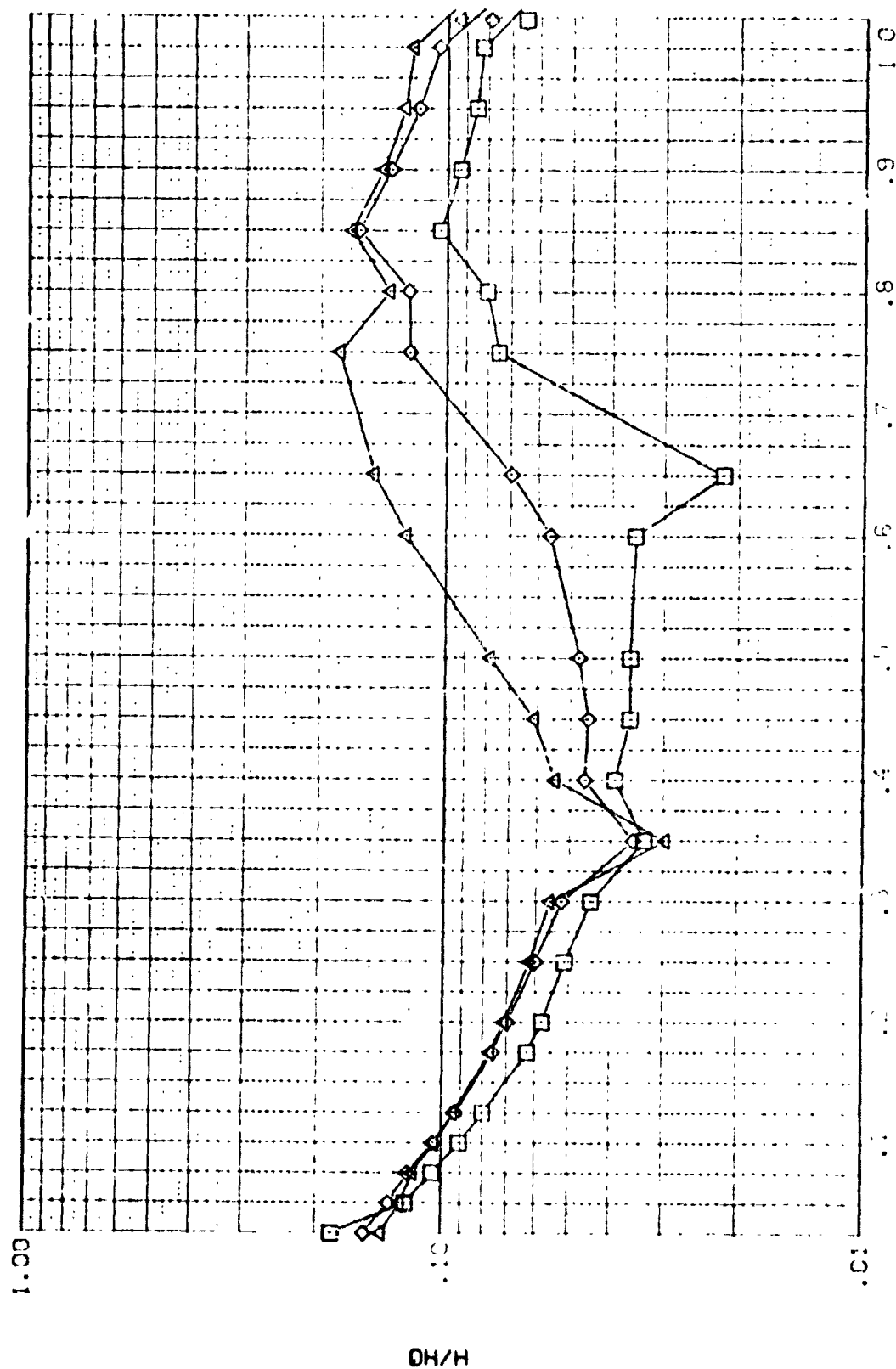


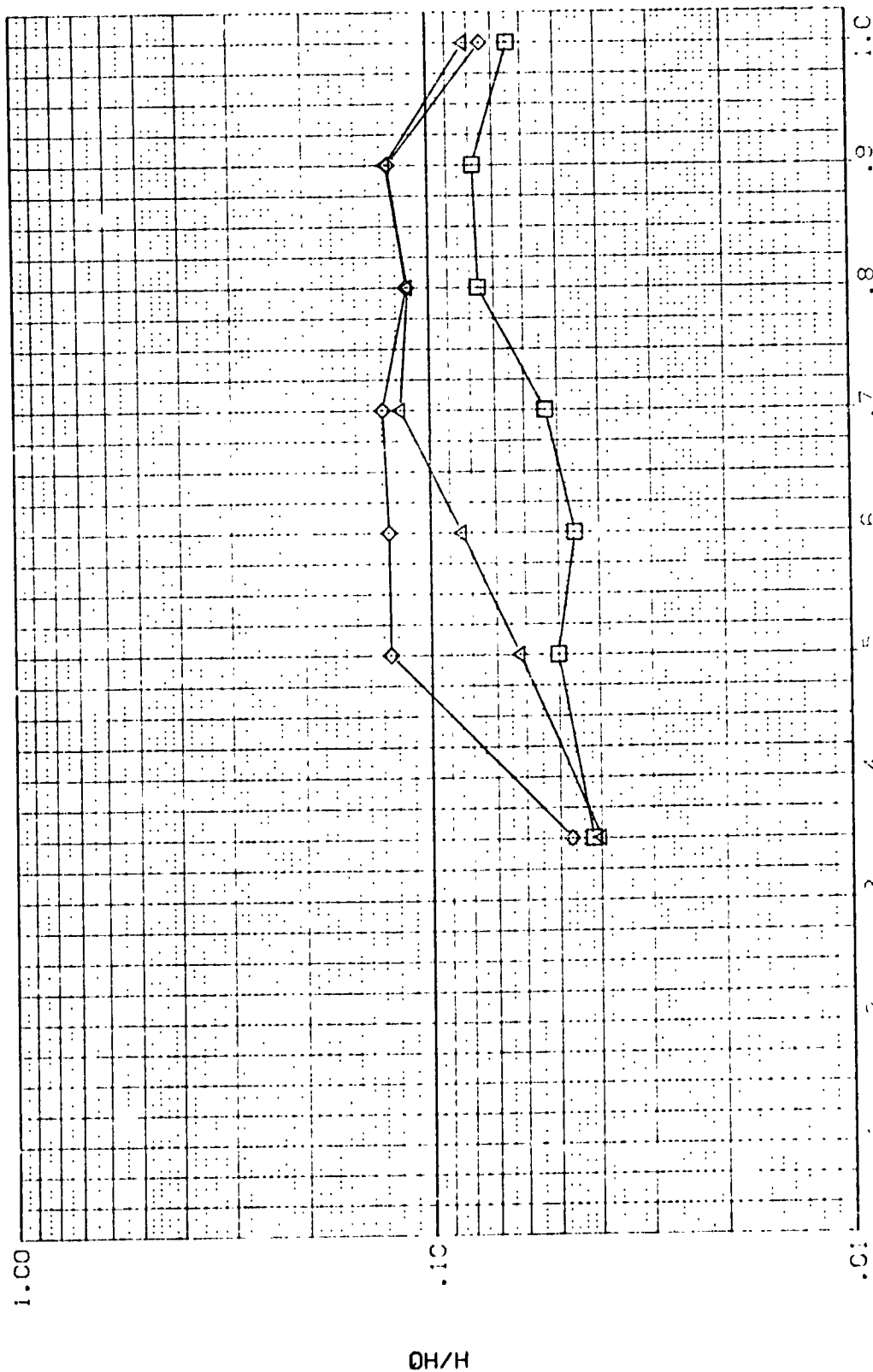
FIG 16 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

R₀/L = 10.000 MACH = 0.900 P.R. = 0.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(P2,BC2) DATA NOT AVAILABLE
 (P2,BC3) CH14 B22C75M4.7*1111 FUSELAGE LOWER SURFACE
 (P2,BC4) CH14 B22C75M4.7*1111 FUSELAGE LOWER SURFACE
 (P2,BC5) CH14 B22C75M4.7*1111 FUSELAGE LOWER SURFACE

ALPHA BETA MAC
 20.000 .000 8.100
 25.000 .000 8.100
 30.000 .000 8.100
 35.000 .000 8.100

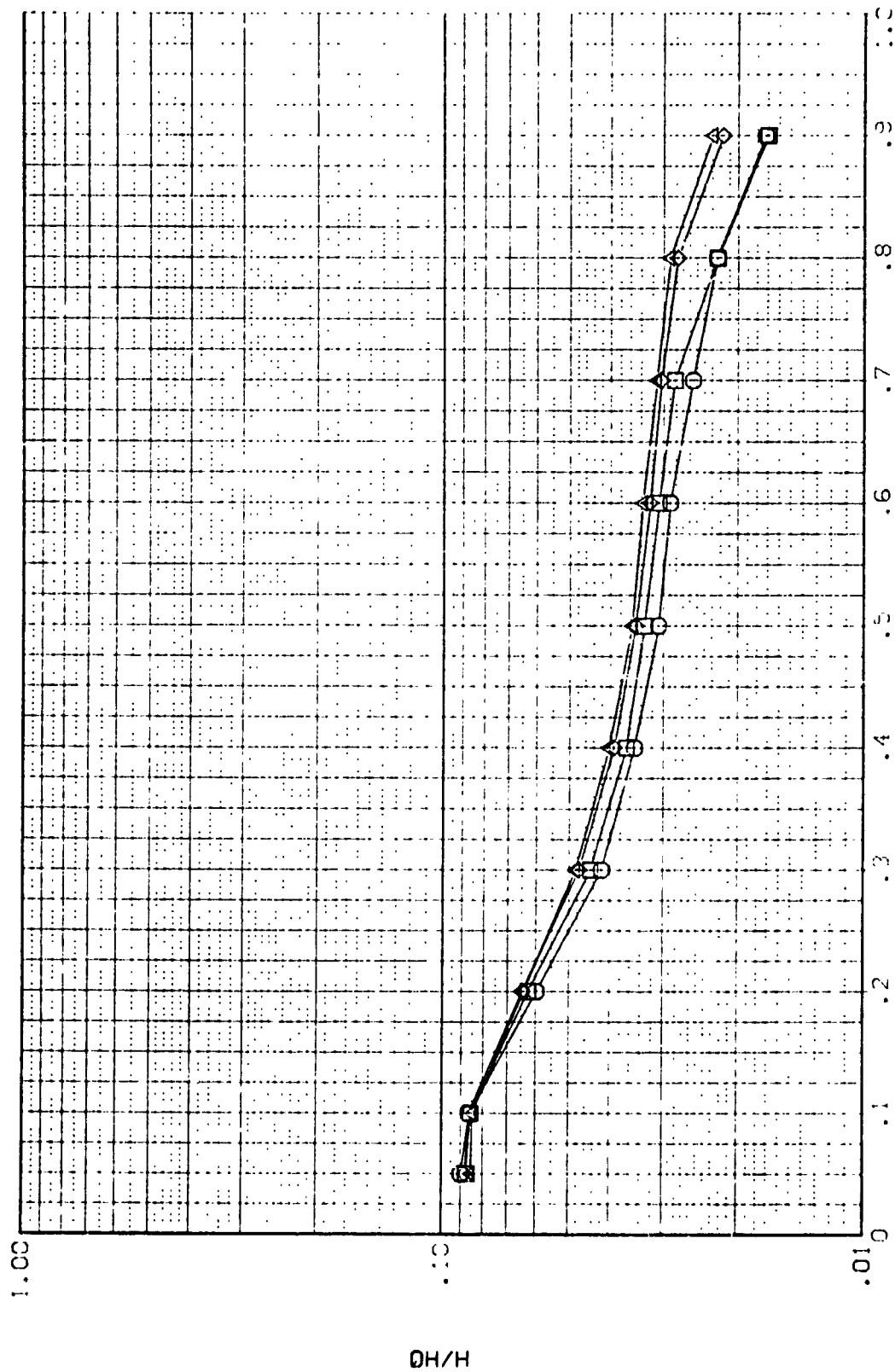


LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION WITH ANGLE OF ATTACK ON FUSELAGE LOWER SURFACE

FIG 16

RN/L = 10.000 HA/H = .900 B.P. = 117.000

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|-----------------------------------|--------|------|-------|
| 192.022 | Q14 | B22CTFS4V7#111 WING LOWER SURFACE | 20.000 | .000 | 8.000 |
| 192.023 | Q14 | B22CTFS4V7#111 WING LOWER SURFACE | 25.000 | .000 | 8.000 |
| 192.024 | Q14 | B22CTFS4V7#111 WING LOWER SURFACE | 30.000 | .000 | 8.000 |
| 192.025 | Q14 | B22CTFS4V7#111 WING LOWER SURFACE | 35.000 | .000 | 8.000 |



LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD

FIG 17 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

$R_N/L = 1.000$ $M_\infty/HT = .850$ $2\gamma/B = .400$

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (PG.WC2) | ○ | OM14 B22C7F54V74111 WING LOWER SURFACE | 20.000 | .000 | 8.000 |
| (PG.WC3) | □ | OM14 B22C7F54V74111 WING LOWER SURFACE | 25.000 | .000 | 8.000 |
| (PG.WC4) | △ | OM14 B22C7F54V74111 WING LOWER SURFACE | 30.000 | .000 | 8.000 |
| (PG.WC5) | × | OM14 B22C7F54V74111 WING LOWER SURFACE | 35.000 | .000 | 8.000 |

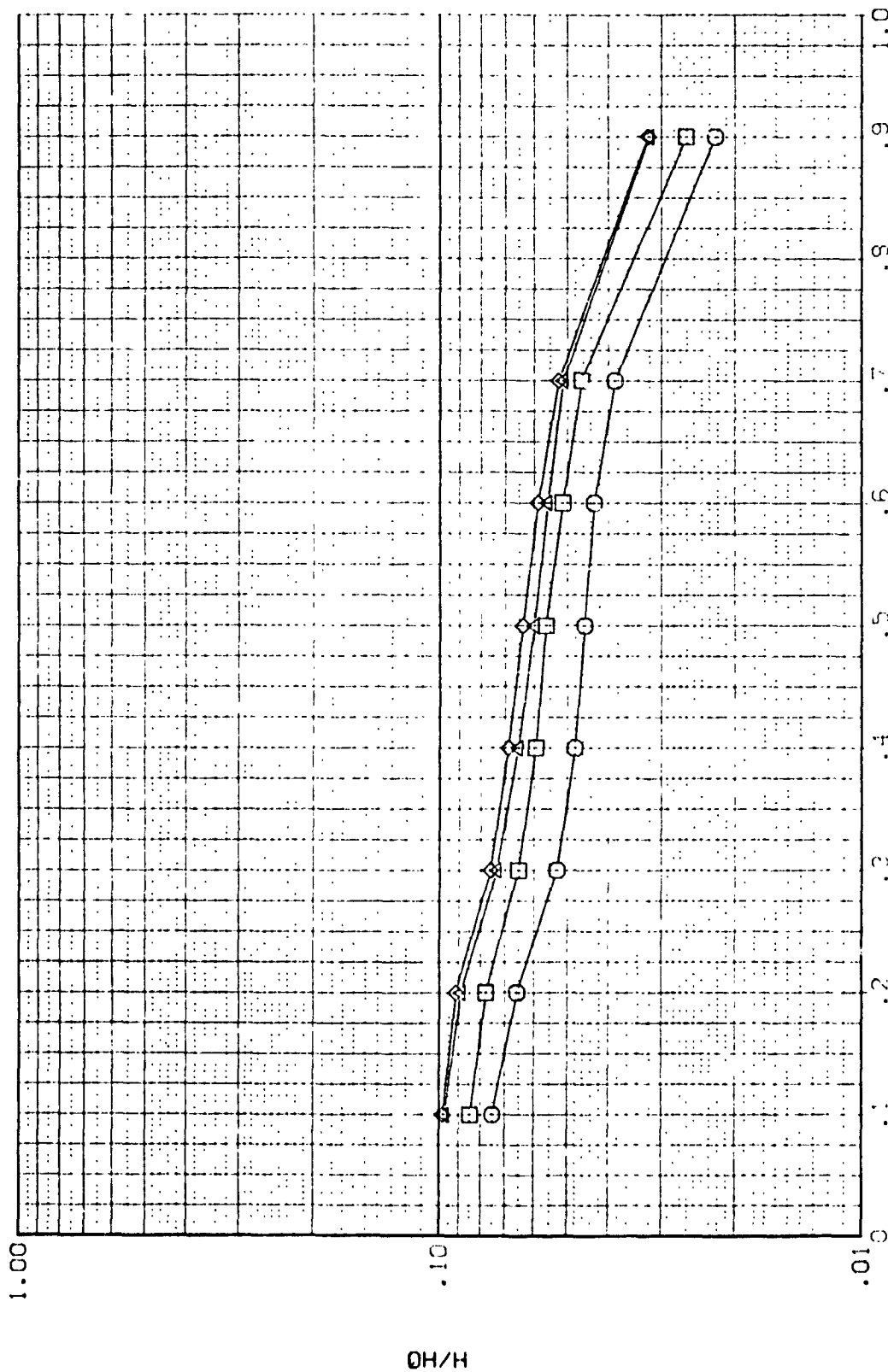






FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD

VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RN/L = 1.000 HAW/HI = .850

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|---|--|--------|------|-------|
| (POLWC2) |  | CH14 B22C755477*111 WING LOWER SURFACE | 20.000 | .000 | 8.000 |
| (POLWC3) |  | CH14 B22C755477*111 WING LOWER SURFACE | 25.000 | .000 | 8.000 |
| (POLWC4) |  | CH14 B22C755477*111 WING LOWER SURFACE | 30.000 | .000 | 8.000 |
| (POLWC5) |  | CH14 B22C755477*111 WING LOWER SURFACE | 35.000 | .000 | 8.000 |

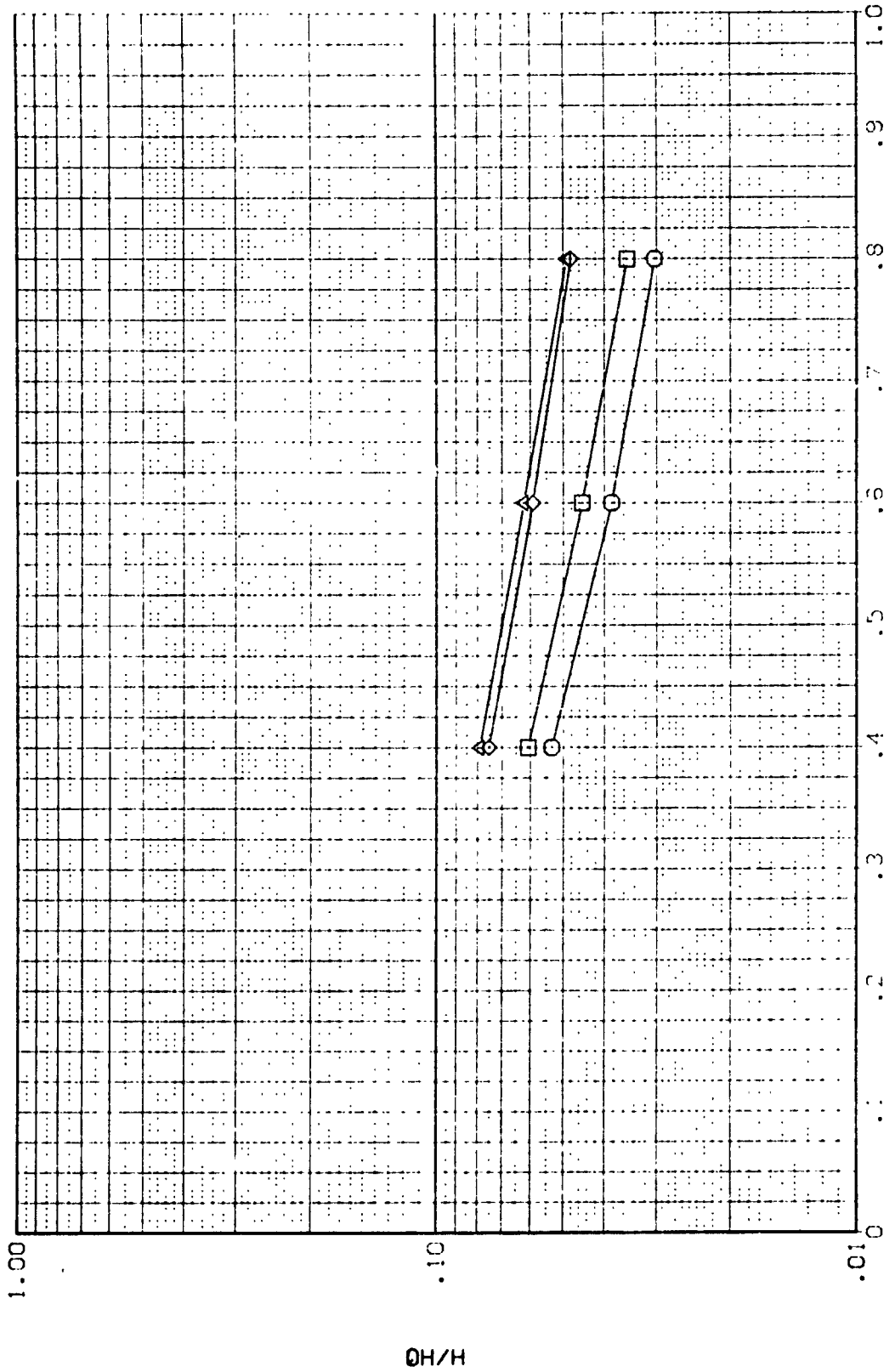
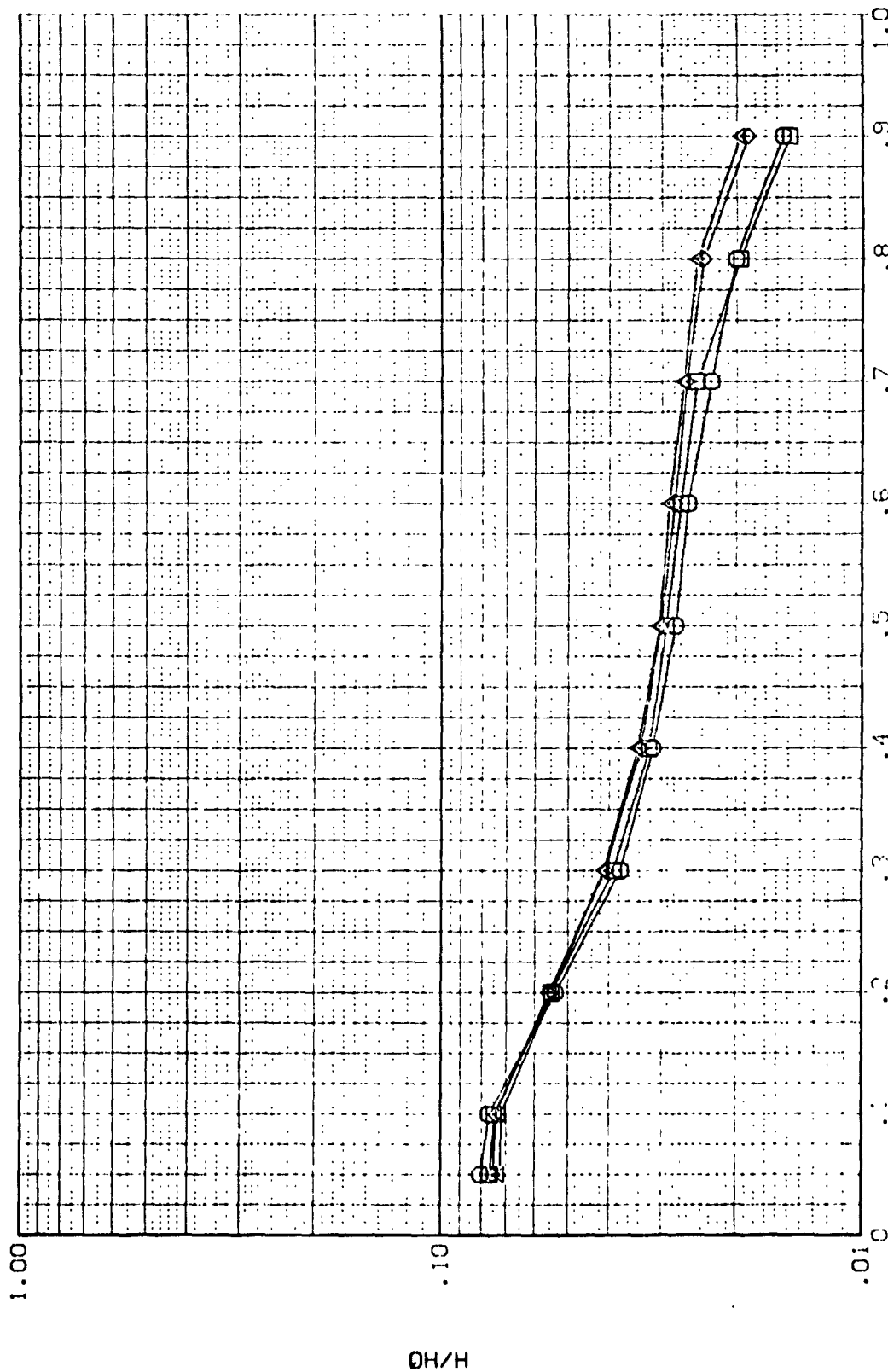


FIG 17 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(PC-002) CH-14 B22C7FS4V7*111 WING LOWER SURFACE
 (PC-003) CH-14 B22C7FS4V7*111 WING LOWER SURFACE
 (PC-004) CH-14 B22C7FS4V7*111 WING LOWER SURFACE
 (PC-005) CH-14 B22C7FS4V7*111 WING LOWER SURFACE

ALPHA BETA MACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000



LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD

FIG 17 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RN/L = 1.000 H/W/H = .900 20.0 = .400

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (RCL#02) | ○ | 0414 B22C7FS4V7#111 WING LOWER SURFACE | 20.000 | .000 | 3.000 |
| (RCL#03) | □ | 0414 B22C7FS4V7#111 WING LOWER SURFACE | 25.000 | .000 | 3.000 |
| (RCL#04) | △ | 0414 B22C7FS4V7#111 WING LOWER SURFACE | 30.000 | .000 | 3.000 |
| (RCL#05) | × | 0414 B22C7FS4V7#111 WING LOWER SURFACE | 35.000 | .000 | 3.000 |

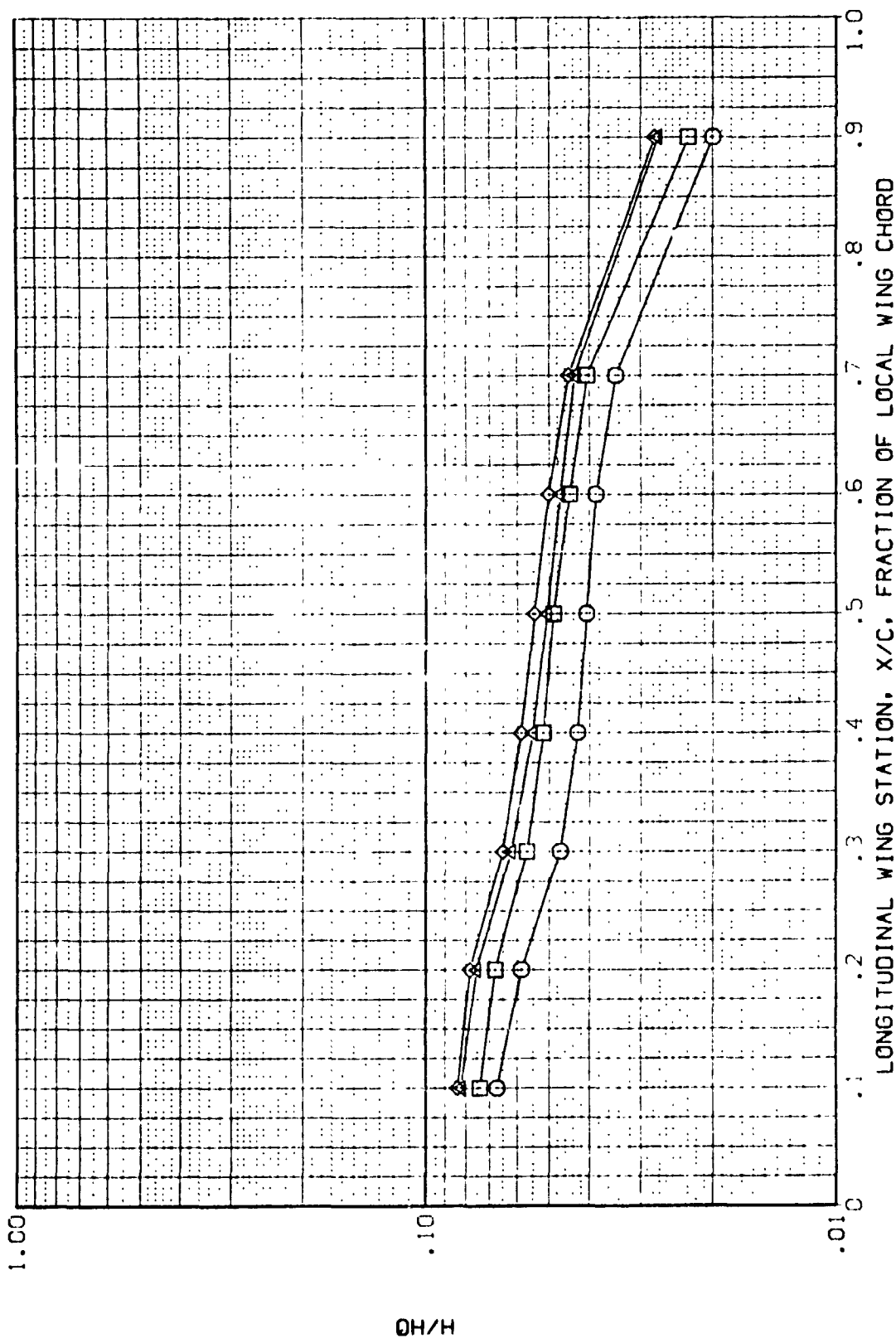


FIG 17 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RN/L = 1.000 HAW/HT = .900 2Y/B = .600

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|-----------------|--|--------|------|-------|
| (R2L002) | C414 B22C7F54V7#111 WING LOWER SURFACE | 22.000 | .000 | 8.000 |
| (R2L003) | C414 B22C7F54V7#111 WING LOWER SURFACE | 25.000 | .000 | 8.000 |
| (R2L004) | C414 B22C7F54V7#111 WING LOWER SURFACE | 30.000 | .000 | 8.000 |
| (R2L005) | C414 B22C7F54V7#111 WING LOWER SURFACE | 35.000 | .000 | 8.000 |

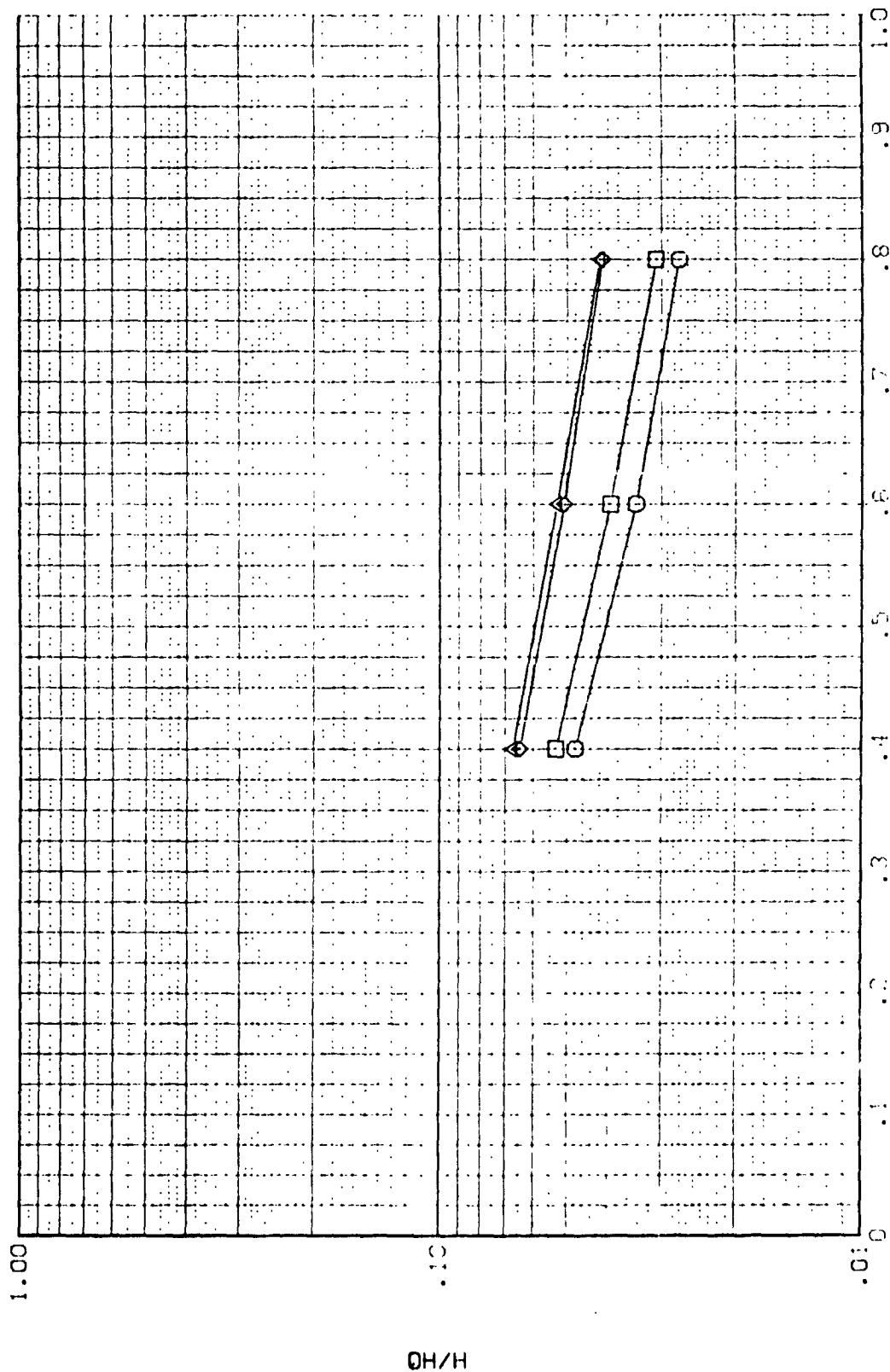


FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (RCL#02) | ○ | CH-14 B22C7FSM4V7W111 WING LOWER SURFACE | 20.000 | .000 | 8.000 |
| (RCL#03) | □ | CH-14 B22C7FSM4V7W111 WING LOWER SURFACE | 25.000 | .000 | 8.000 |
| (RCL#04) | △ | CH-14 B22C7FSM4V7W111 WING LOWER SURFACE | 30.000 | .000 | 8.000 |
| (RCL#05) | × | CH-14 B22C7FSM4V7W111 WING LOWER SURFACE | 35.000 | .000 | 8.000 |

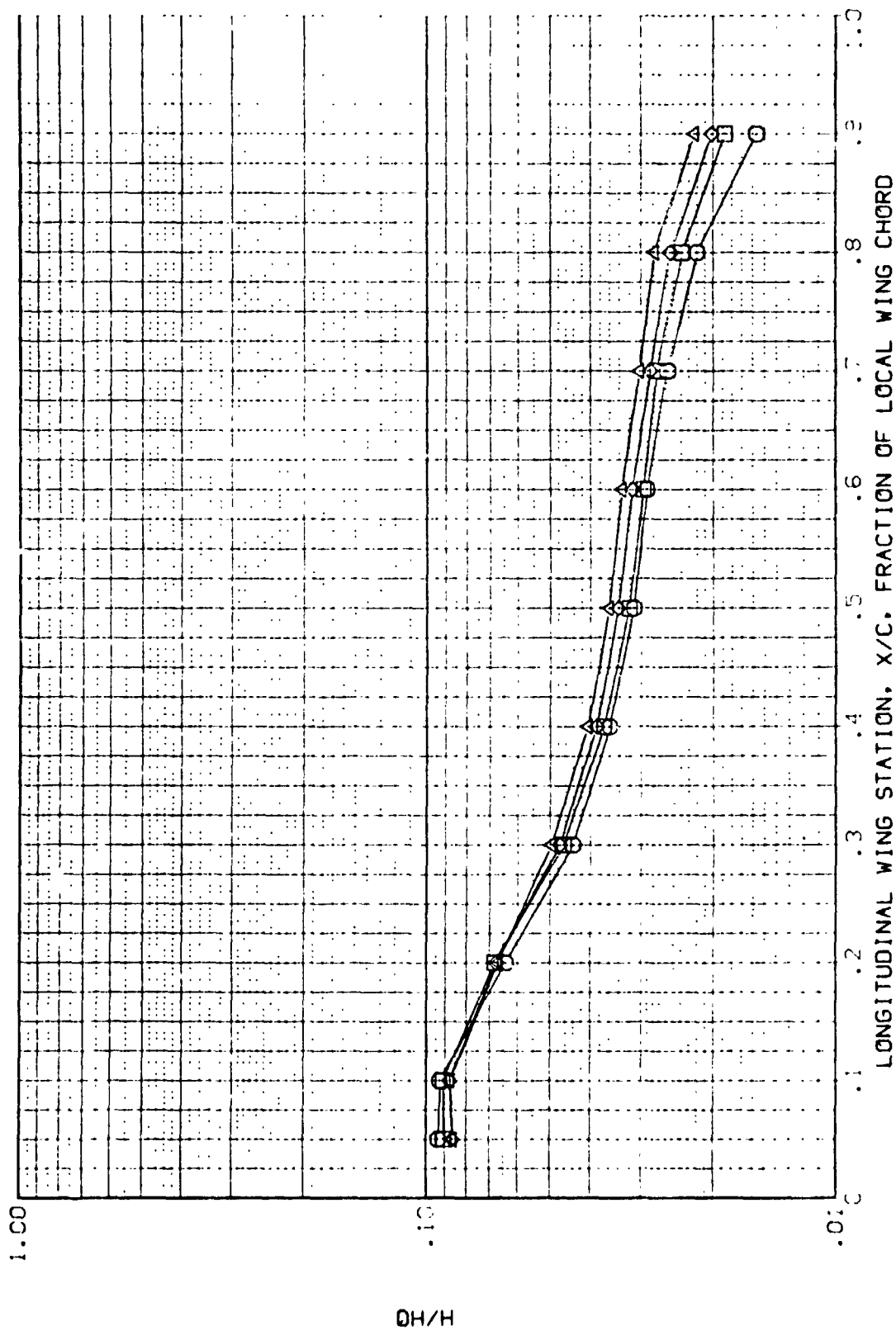


FIG 17

PN/L = 3.000 HAW/HT = .050 2Y.B = 400 PAGE 197

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | M/CH |
|----------|--------|---|--------|------|-------|
| (POLC2) | ○ | CH14 B22C7FSM4V7W111 WING LOWER SURFACE | 20.000 | .000 | 8.000 |
| (POLC3) | □ | CH14 B22C7FSM4V7W111 WING LOWER SURFACE | 25.000 | .000 | 8.000 |
| (POLC4) | △ | CH14 B22C7FSM4V7W111 WING LOWER SURFACE | 30.000 | .000 | 8.000 |
| (POLC5) | × | CH14 B22C7FSM4V7W111 WING LOWER SURFACE | 35.000 | .000 | 8.000 |

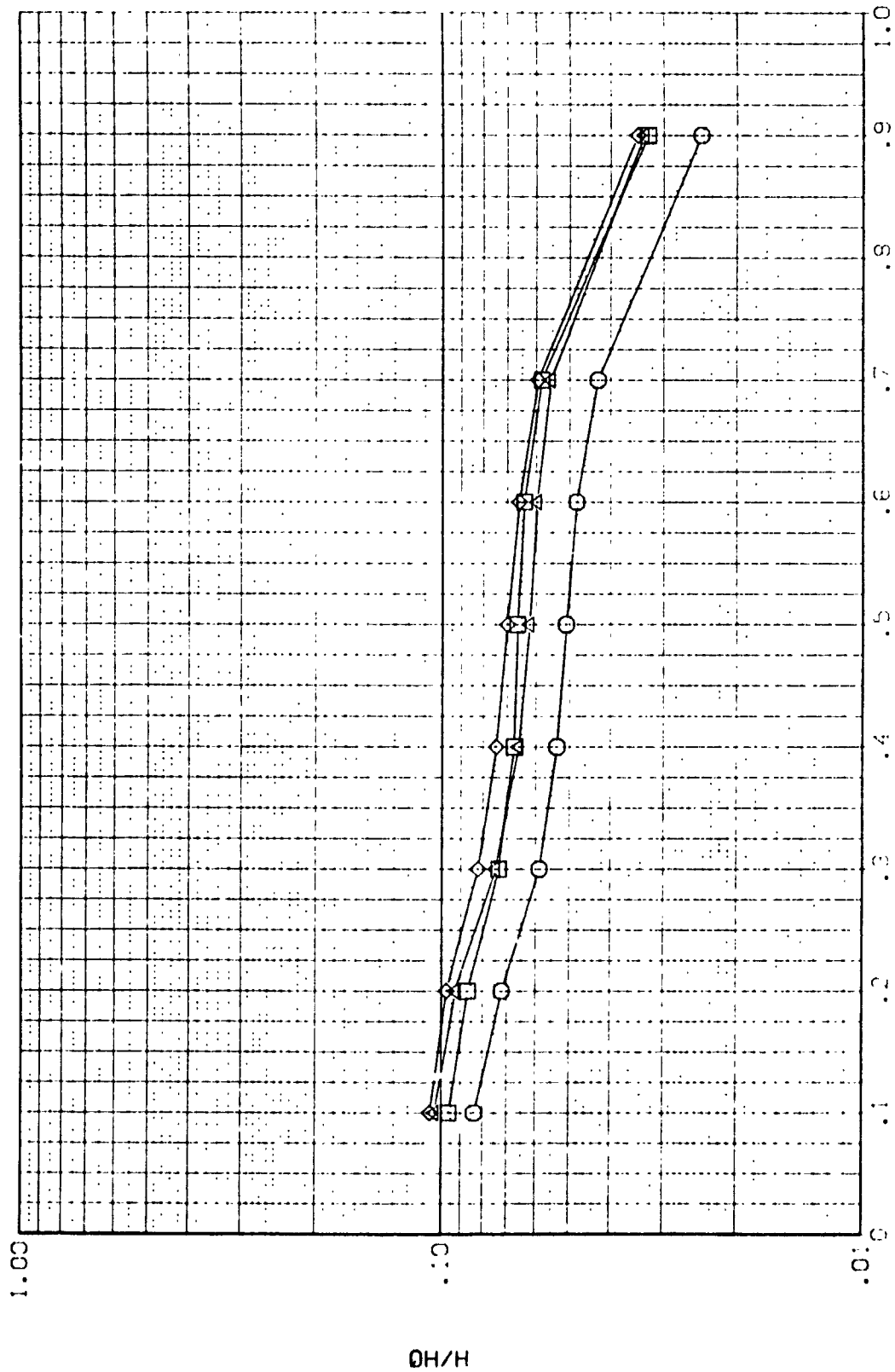


FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

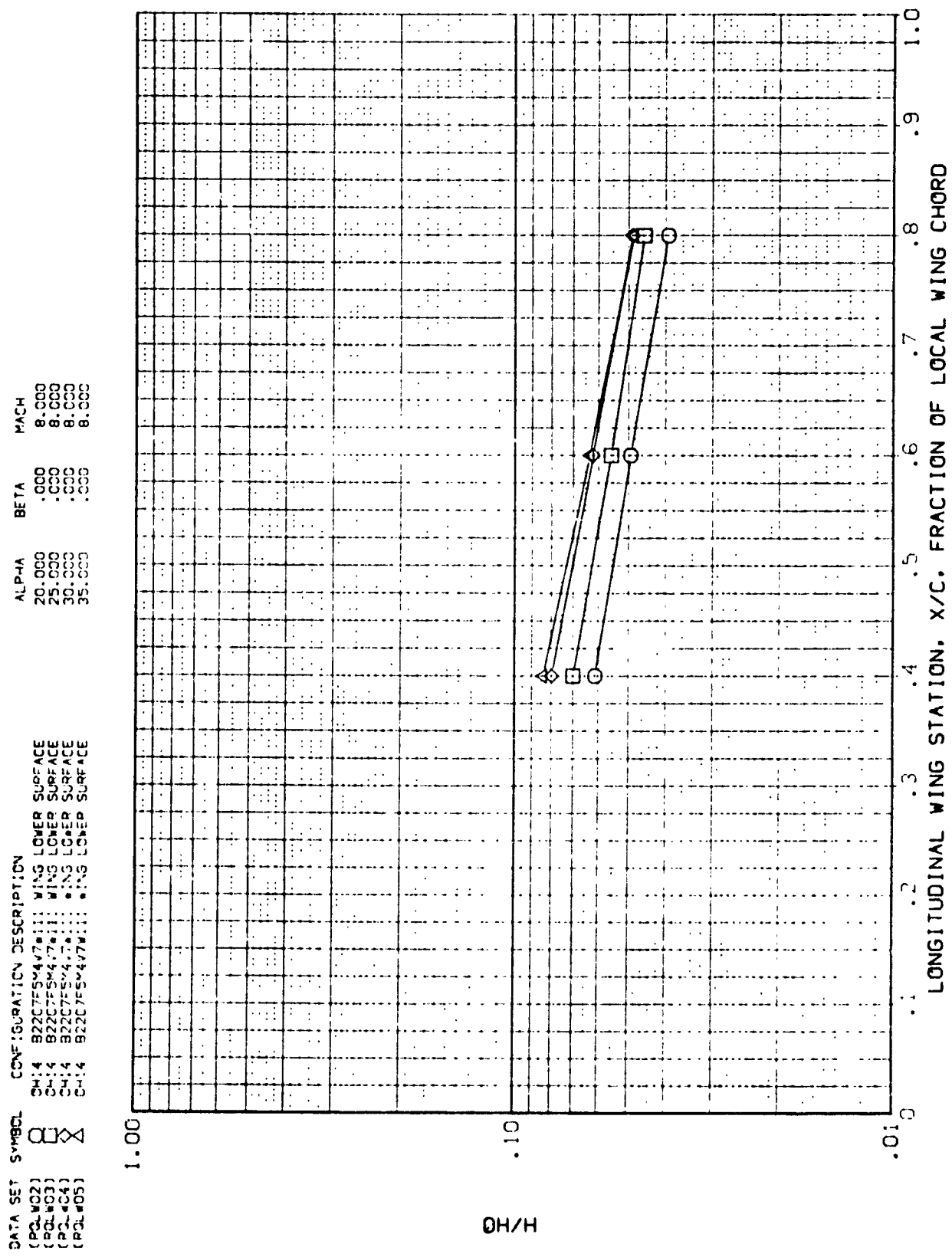






FIG 17 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE
 $RN/L = 3.000$ $HA/H^* = .950$ $2^*B = .800$ PAGE 199

DATA SET SYMBOL
 (RQL#02) 
 (RQL#03) 
 (RQL#04) 
 (RQL#05) 

CONFIGURATION DESCRIPTION
 DH14 B22CTFS4V7W111 WING LOWER SURFACE
 DH14 B22CTFS4V7W111 WING LOWER SURFACE
 DH14 B22CTFS4V7W111 WING LOWER SURFACE
 DH14 B22CTFS4V7W111 WING LOWER SURFACE

ALPHA BETA VACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000

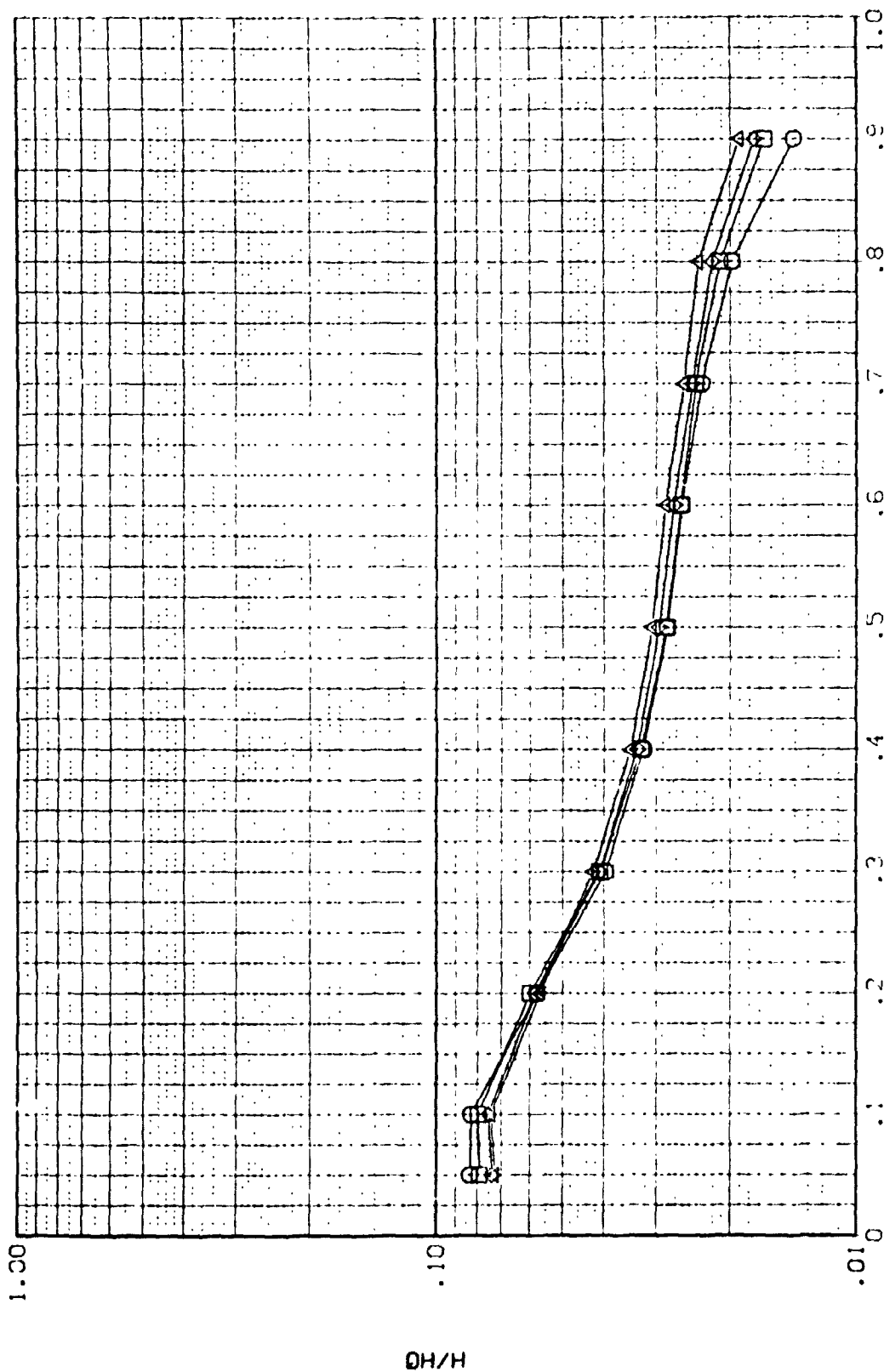


FIG 17 LONGITUDINAL WING STATION. X/C. FRACTION OF LOCAL WING CHORD
 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RN/L = 3.000 HAW/HT = .900 2Y/B = .400 PAGE 200

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (RQ,WC2) | □ | CH-14 B22C7F5M4V7W111 WING LOWER SURFACE | 25.000 | .000 | 8.000 |
| (RQ,WC3) | ◇ | CH-14 B22C7F5M4V7W111 WING LOWER SURFACE | 25.000 | .000 | 8.000 |
| (RQ,WC4) | △ | CH-14 B22C7F5M4V7W111 WING LOWER SURFACE | 30.000 | .000 | 8.000 |
| (RQ,WC5) | ○ | CH-14 B22C7F5M4V7W111 WING LOWER SURFACE | 35.000 | .000 | 8.000 |

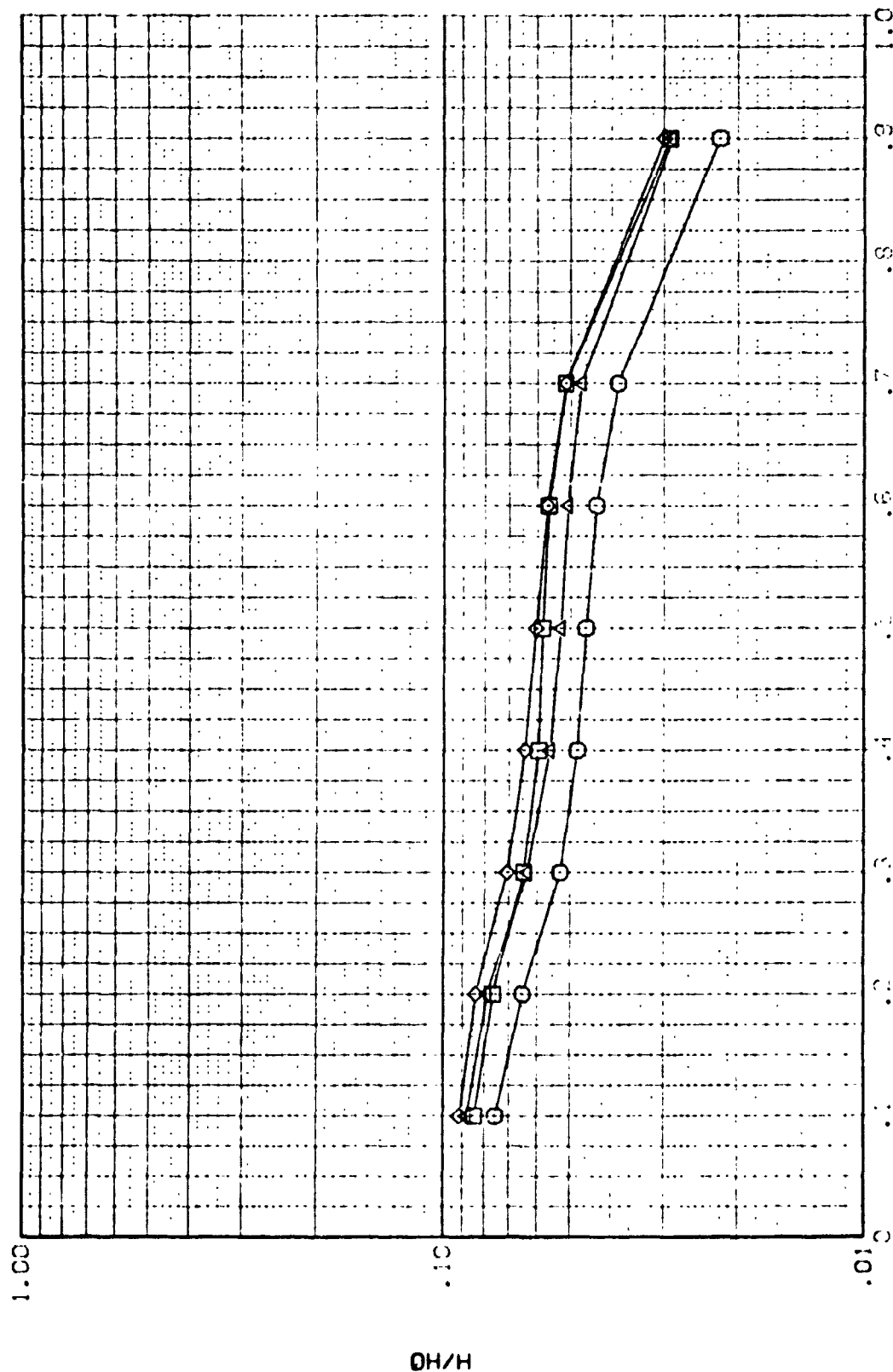


FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RV/L = 3.000 HAW/HT = .900 CY 3 = .600

DATA SET SYMBOL
 (PQL002)
 (PQL003)
 (PQL004)
 (PQL005)

CONFIGURATION DESCRIPTION
 C-14 B20CTF5417-111 WING LOWER SURFACE
 C-14 B20CTF5417-111 WING LOWER SURFACE
 C-14 B20CTF5417-111 WING LOWER SURFACE
 C-14 B20CTF5417-111 WING LOWER SURFACE

ALPHA BETA MACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000

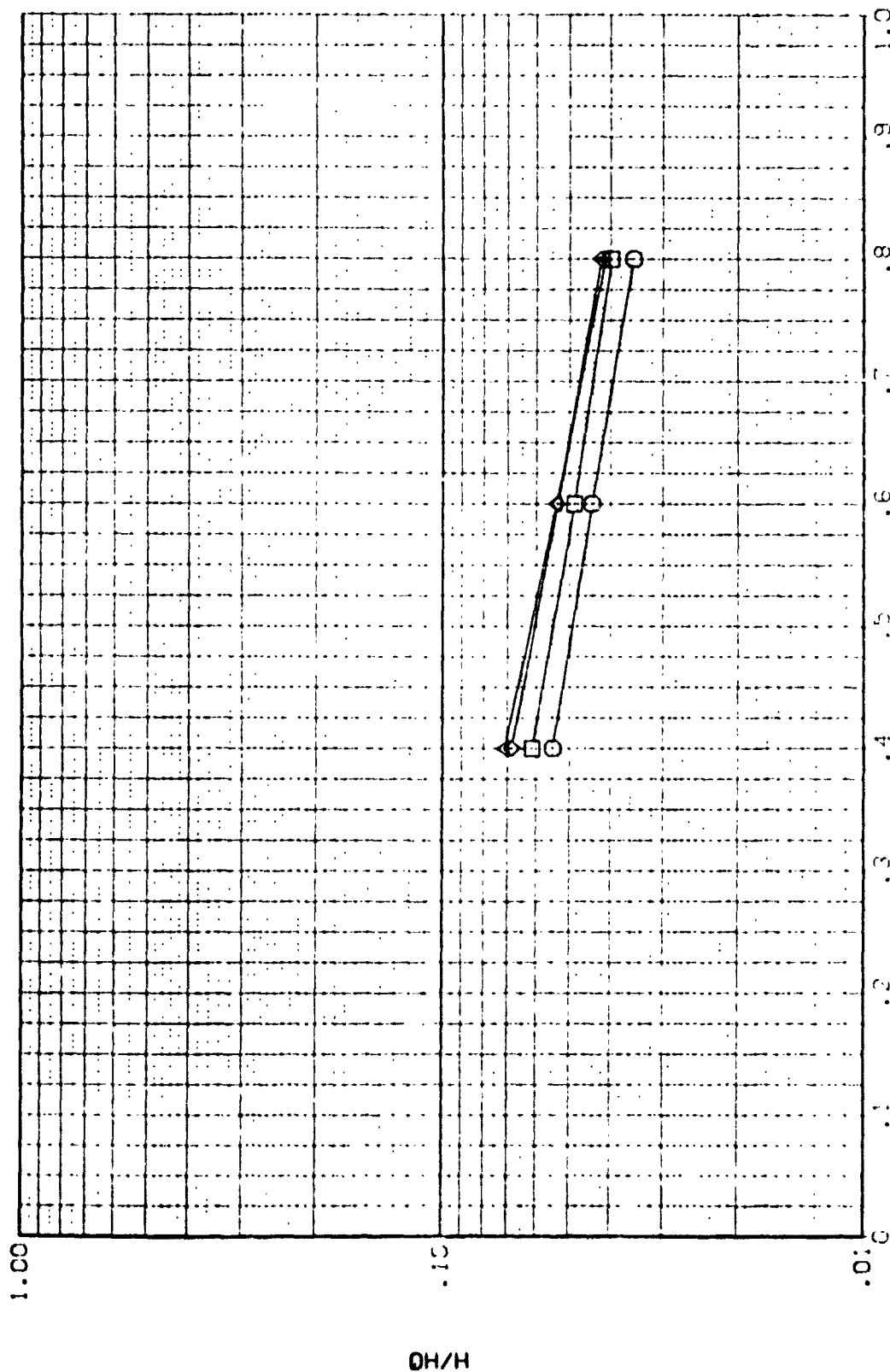






FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RQLV02)  DATA NOT AVAILABLE
(RQLV03)  D-14 B2207FSM47W111 WING LOWER SURFACE
(RQLV04)  D-14 B2207FSM47W111 WING LOWER SURFACE
(RQLV05)  D-14 B2207FSM47W111 WING LOWER SURFACE

ALPHA BETA NACH
20.000 .000 3.000
25.000 .000 3.000
30.000 .000 3.000
35.000 .000 3.000

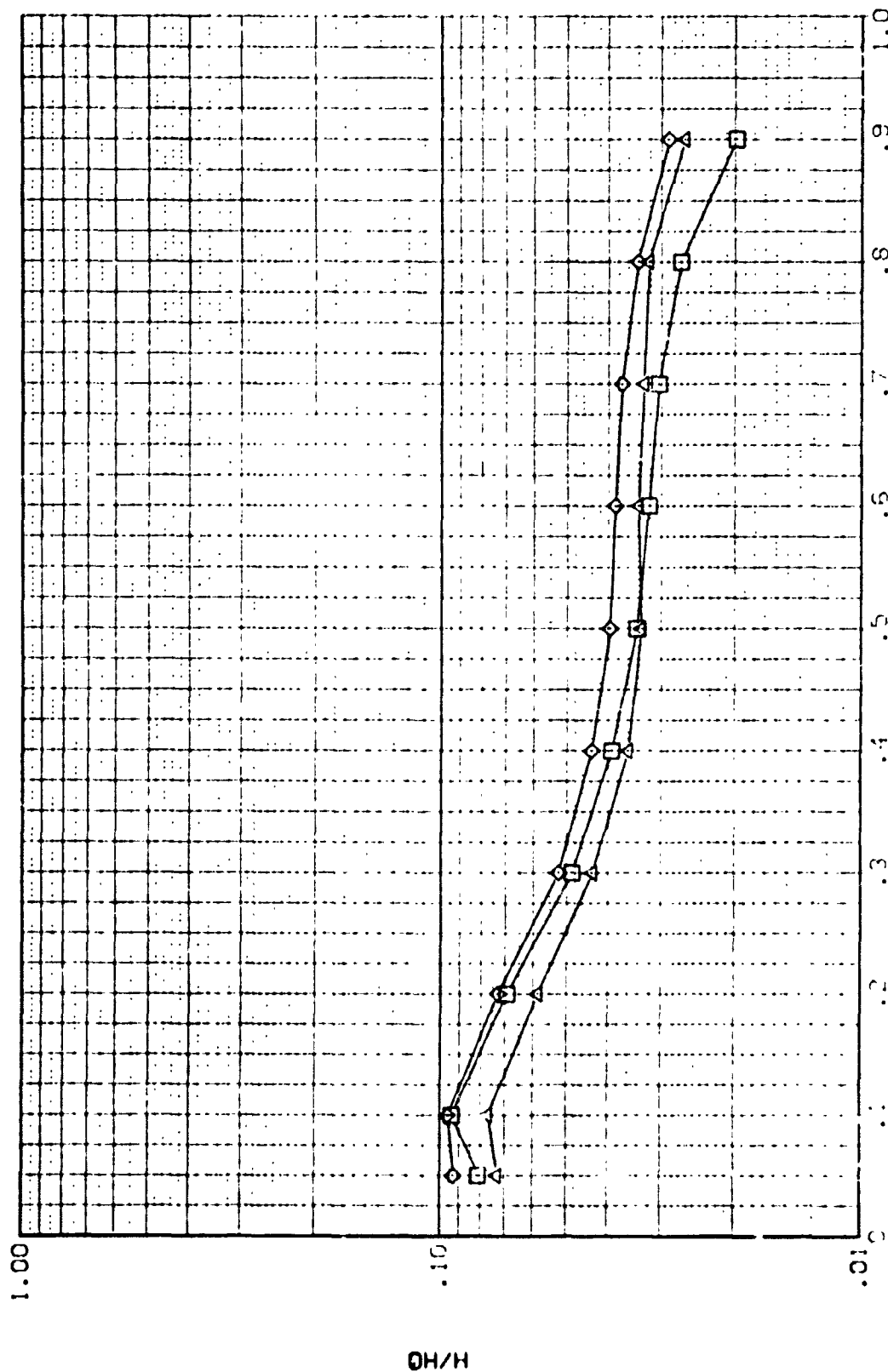


FIG 17 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RN/L = 4.000 α_{max} = .850 α_{min} = .400

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RQ.WC2) DATA NOT AVAILABLE
 (RQ.WC3) C-14 B22C/F5M4/7M111 WING LOWER SURFACE
 (RQ.WC4) C-14 B22C/F5M4/7M111 WING LOWER SURFACE
 (RQ.WC5) C-14 B22C/F5M4/7M111 WING LOWER SURFACE

ALPHA BETA MACH
 20.000 .000 3.000
 25.000 .000 3.000
 30.000 .000 3.000
 35.000 .000 3.000

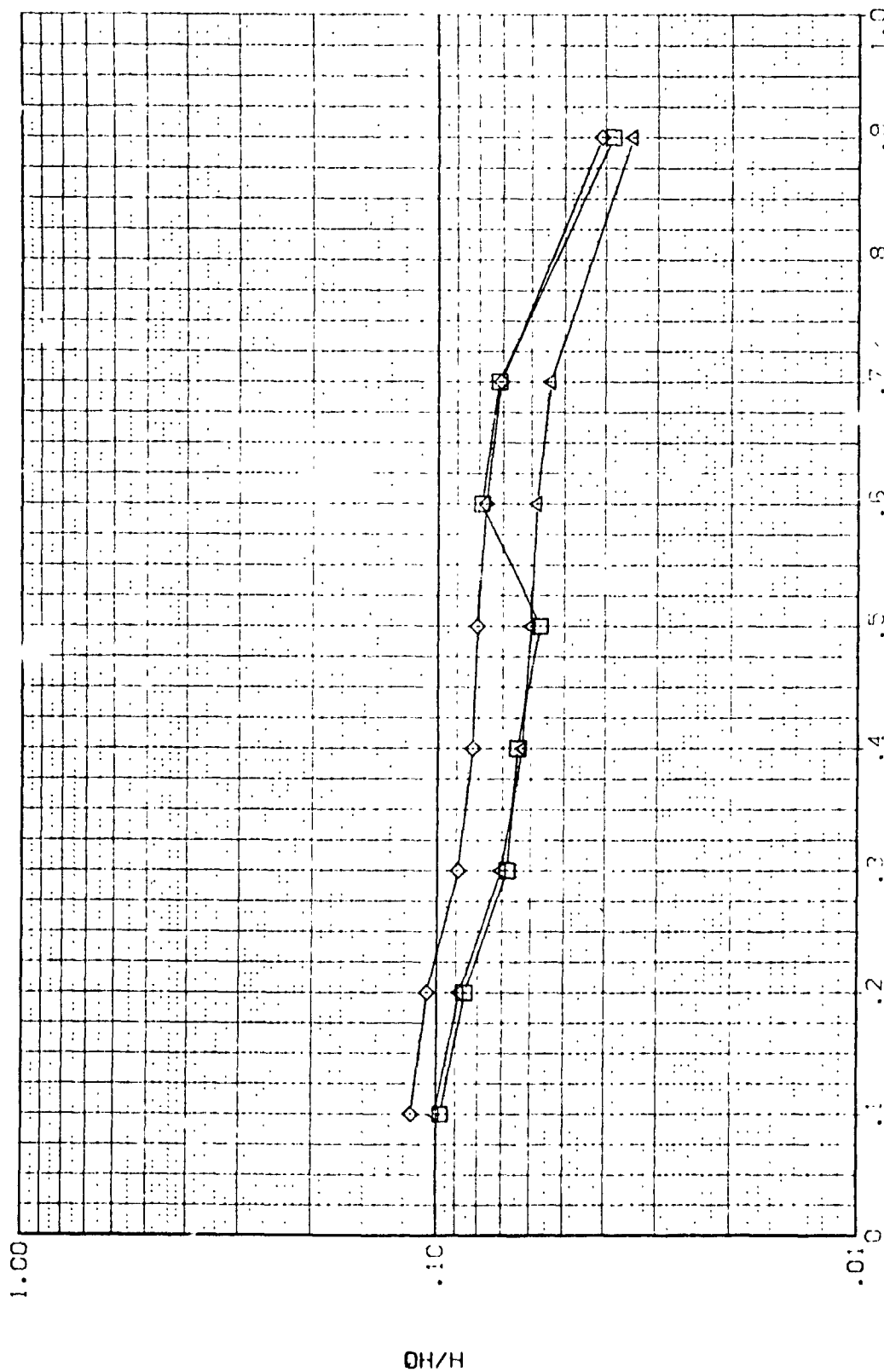


FIG 17 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RN/L = 4.000 HAW/HT = .850 2V/B = .600

DATA SET SYMBOL CONFIGURATION DESCRIPTION ALPHA BETA MACH

(RQLWC2) DATA NOT AVAILABLE 20.000 .000 8.000

(RQLWC3) 0414 B22C7F5M4V7W111 WING LOWER SURFACE 25.000 .000 8.000

(RQLWC4) 0414 B22C7F5M4V7W111 WING LOWER SURFACE 30.000 .000 8.000

(RQLWC5) 0414 B22C7F5M4V7W111 WING LOWER SURFACE 35.000 .000 8.000

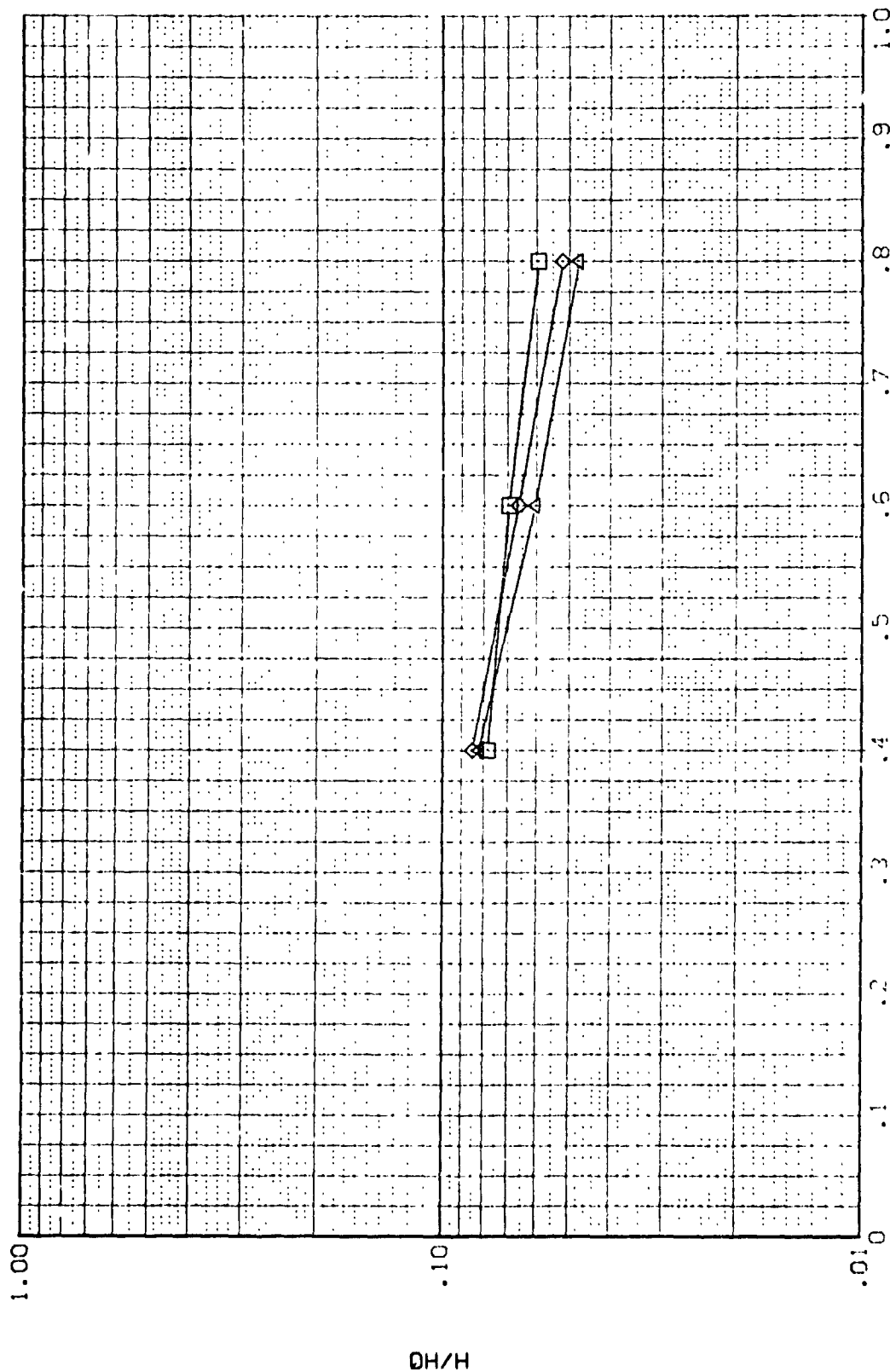


FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RN/L = 4.000 HAW/HI = .850 2V/B = .800

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RQL#02)
(RQL#03)
(RQL#04)
(RQL#05)



DATA NOT AVAILABLE
CH14 B2207554/7#111 WING LOWER SURFACE
CH14 B2207554/7#111 WING LOWER SURFACE
CH14 B2207554/7#111 WING LOWER SURFACE

ALPHA BETA MACH
20.000 .000 8.000
25.000 .000 8.000
30.000 .000 8.000
35.000 .000 8.000

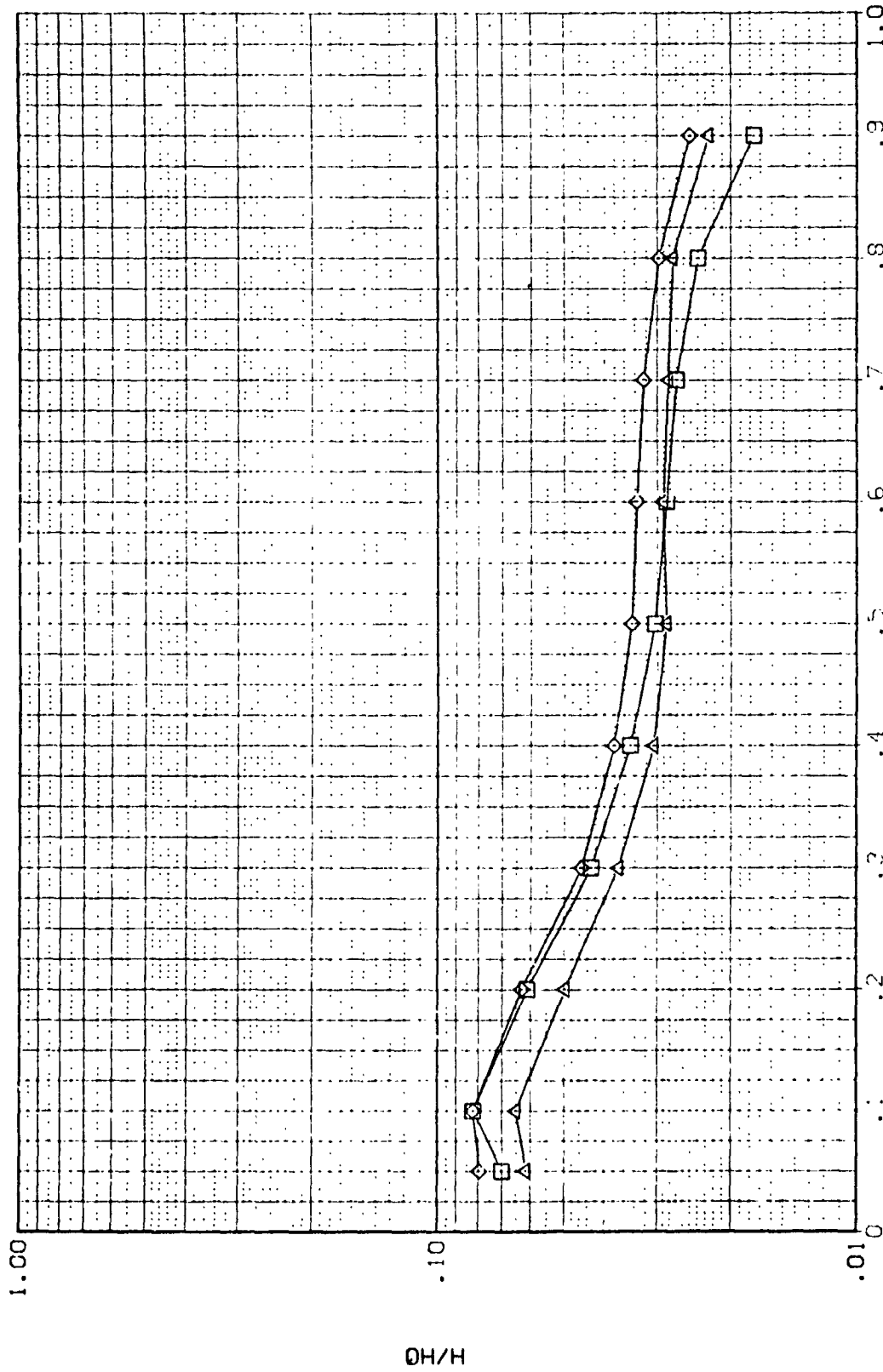


FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RN/L = 4.000 WAW/WT = .900 2Y/B = .400

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RQLWC2) DATA NOT AVAILABLE
 (RQLWC3) CH-14 B22C7FSM4V7W111 WING LOWER SURFACE
 (RQLWC4) CH-14 B22C7FSM4V7W111 WING LOWER SURFACE
 (RQLWC5) CH-14 B22C7FSM4V7W111 WING LOWER SURFACE

ALPHA BETA MACH
 20.000 8.000
 25.000 8.000
 30.000 8.000
 35.000 8.000

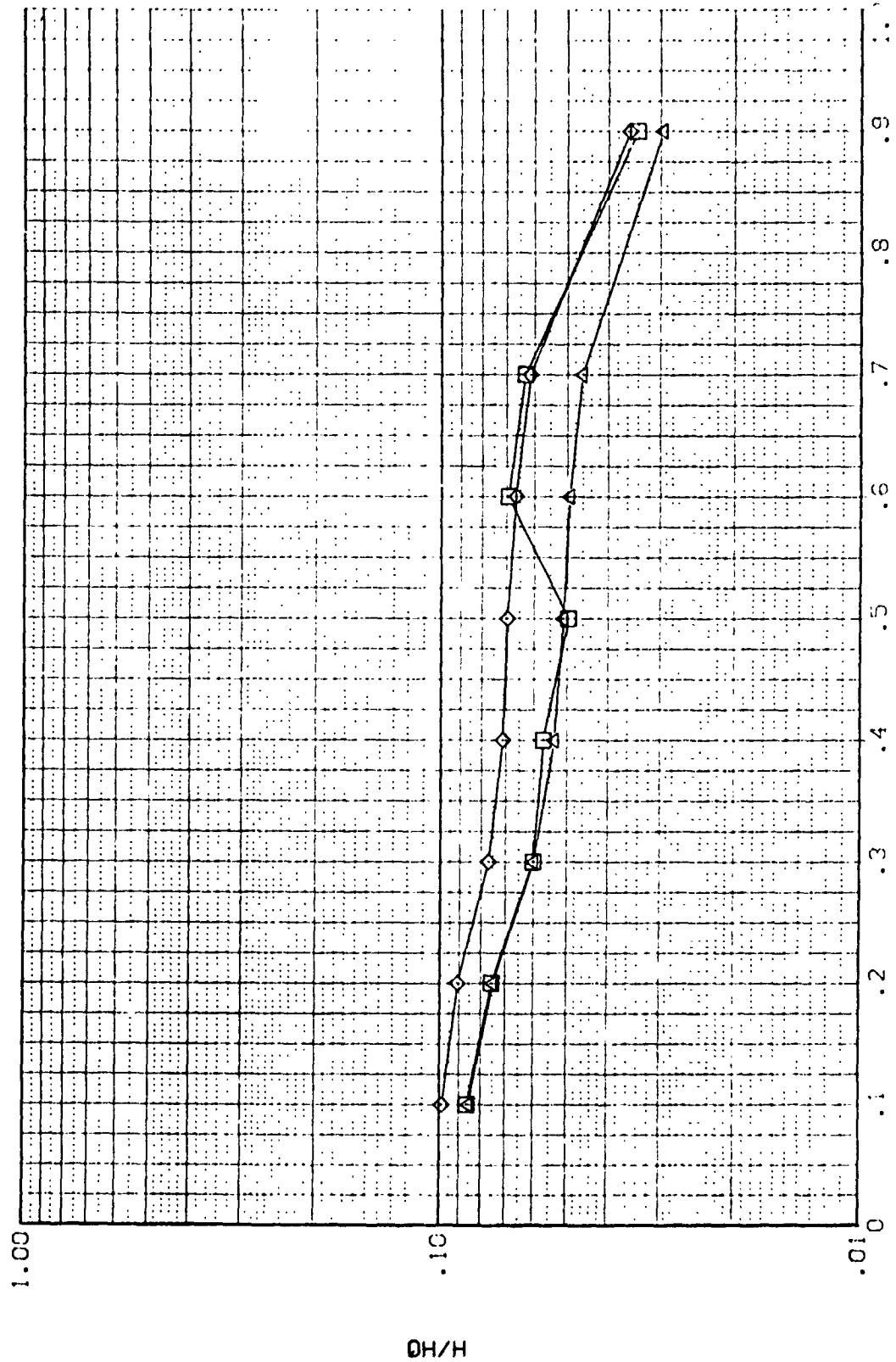


FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RN/L = 4.000 HAW/HT = .900 2Y/3 = .600

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RQLW02) DATA NOT AVAILABLE ALPHA BETA MACH
 (RQLW03) CH-14 B22C7FS4V7W111 WING LOWER SURFACE 20.000 .000 8.000
 (RQLW04) CH-14 B22C7FS4V7W111 WING LOWER SURFACE 25.000 .000 8.000
 (RQLW05) CH-14 B22C7FS4V7W111 WING LOWER SURFACE 30.000 .000 8.000
 (RQLW05) CH-14 B22C7FS4V7W111 WING LOWER SURFACE 35.000 .000 8.000

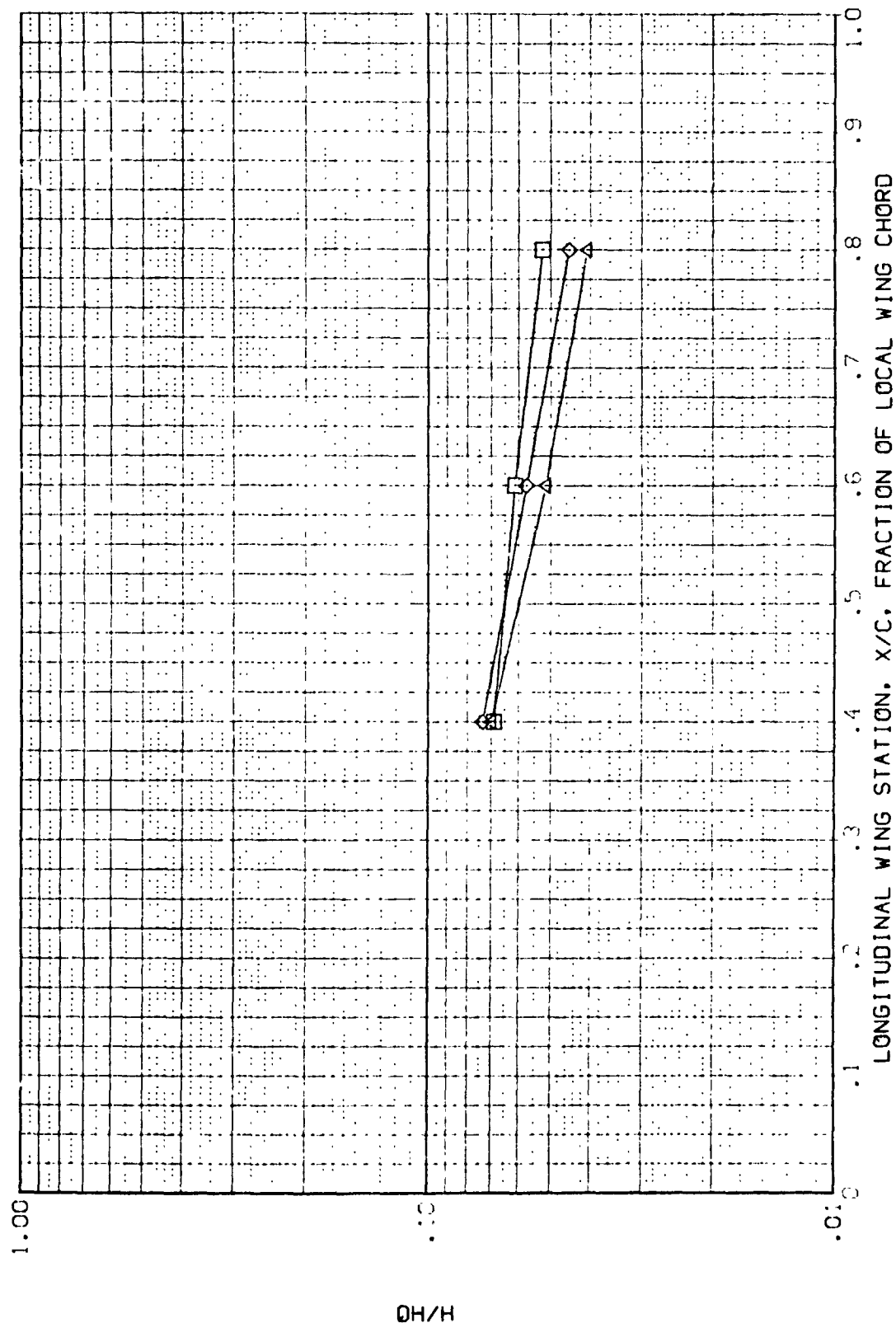


FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RN/L = 4.000 HAW/HT = .900 21/8 = .800

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (R01W02) DATA NOT AVAILABLE
 (R01W03) C-14 B22C7F5M4V7W111 WING LOWER SURFACE
 (R01W04) C-14 B22C7F5M4V7W111 WING LOWER SURFACE
 (R01W05) C-14 B22C7F5M4V7W111 WING LOWER SURFACE

ALPHA BETA MACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000

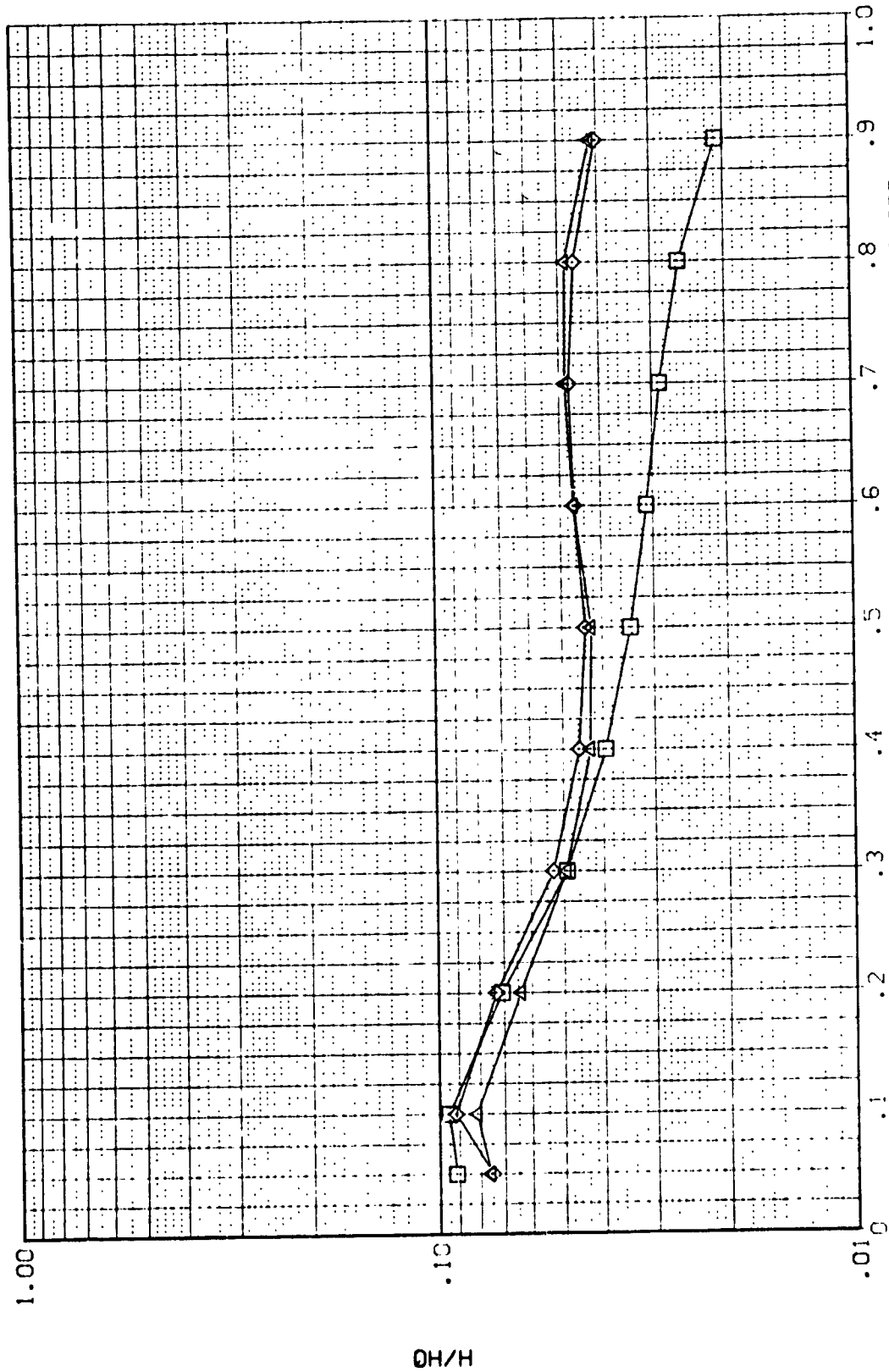


FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RN/L = 5.000 HAW/HT = .850 2Y/B = .400

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (POL#22) DATA NOT AVAILABLE
 (POL#23) CH14 B22C7F54V7W111 WING LOWER SURFACE
 (POL#24) CH14 B22C7F54V7W111 WING LOWER SURFACE
 (POL#25) CH14 B22C7F54V7W111 WING LOWER SURFACE

ALPHA BETA MACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000

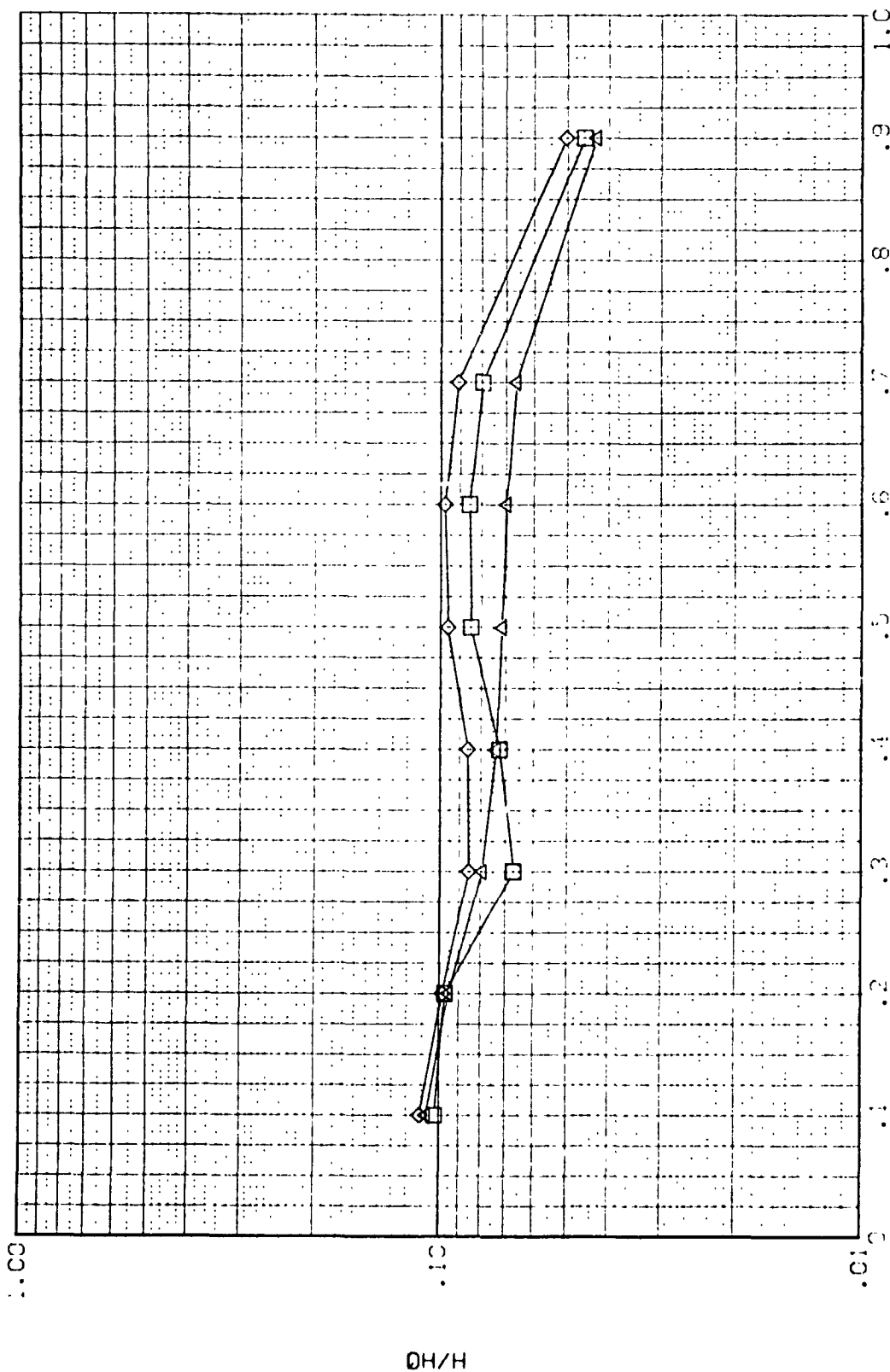


FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RN/L = 5.000 HA/H = .850 2V/B = .600

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RGL#02) DATA NOT AVAILABLE
 (RGL#03) CH14 B22C7FSM4V7#111 WING LOWER SURFACE
 (RGL#04) CH14 B22C7FSM4V7#111 WING LOWER SURFACE
 (RGL#05) CH14 B22C7FSM4V7#111 WING LOWER SURFACE

ALPHA BETA MACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000

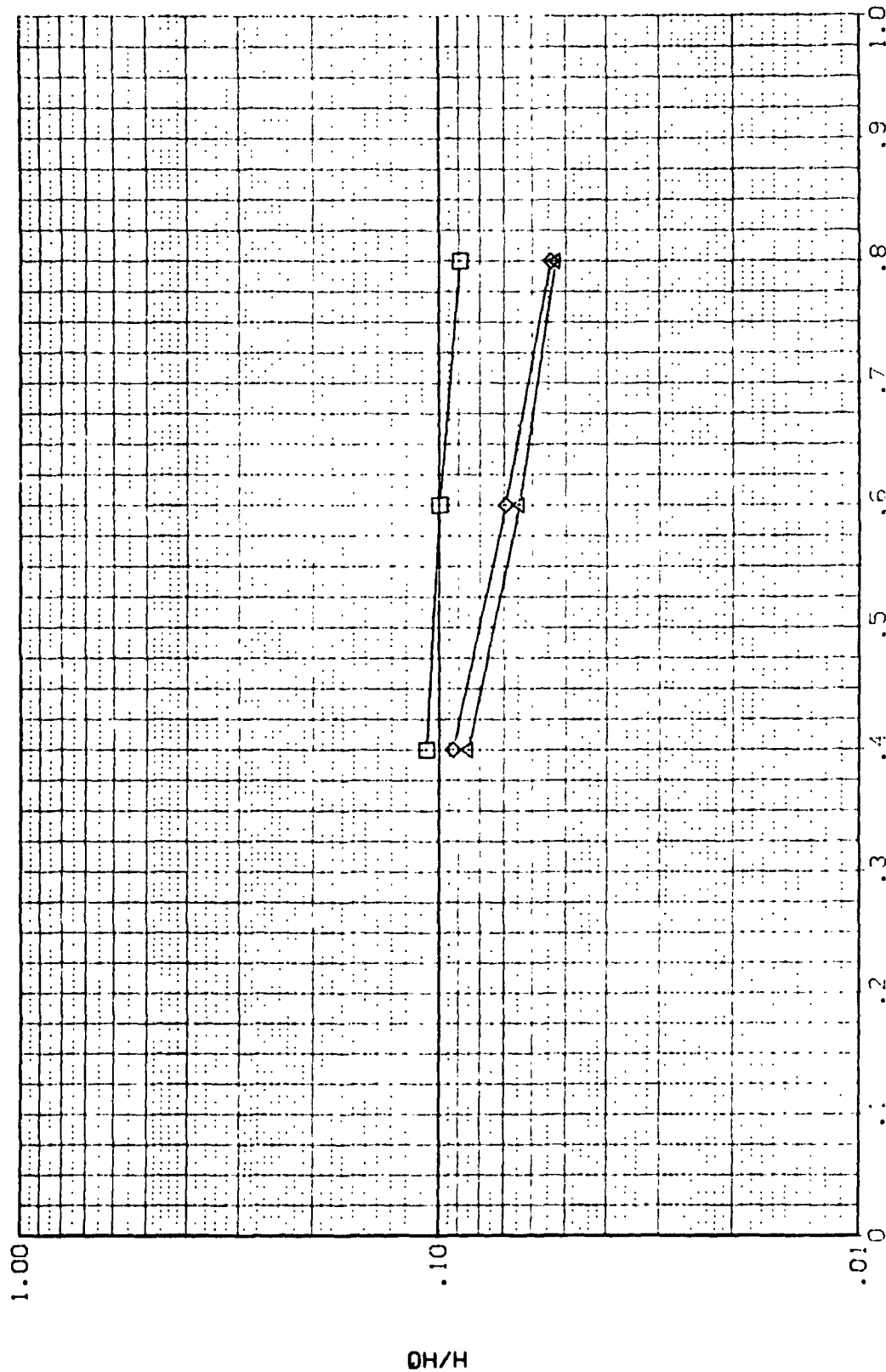


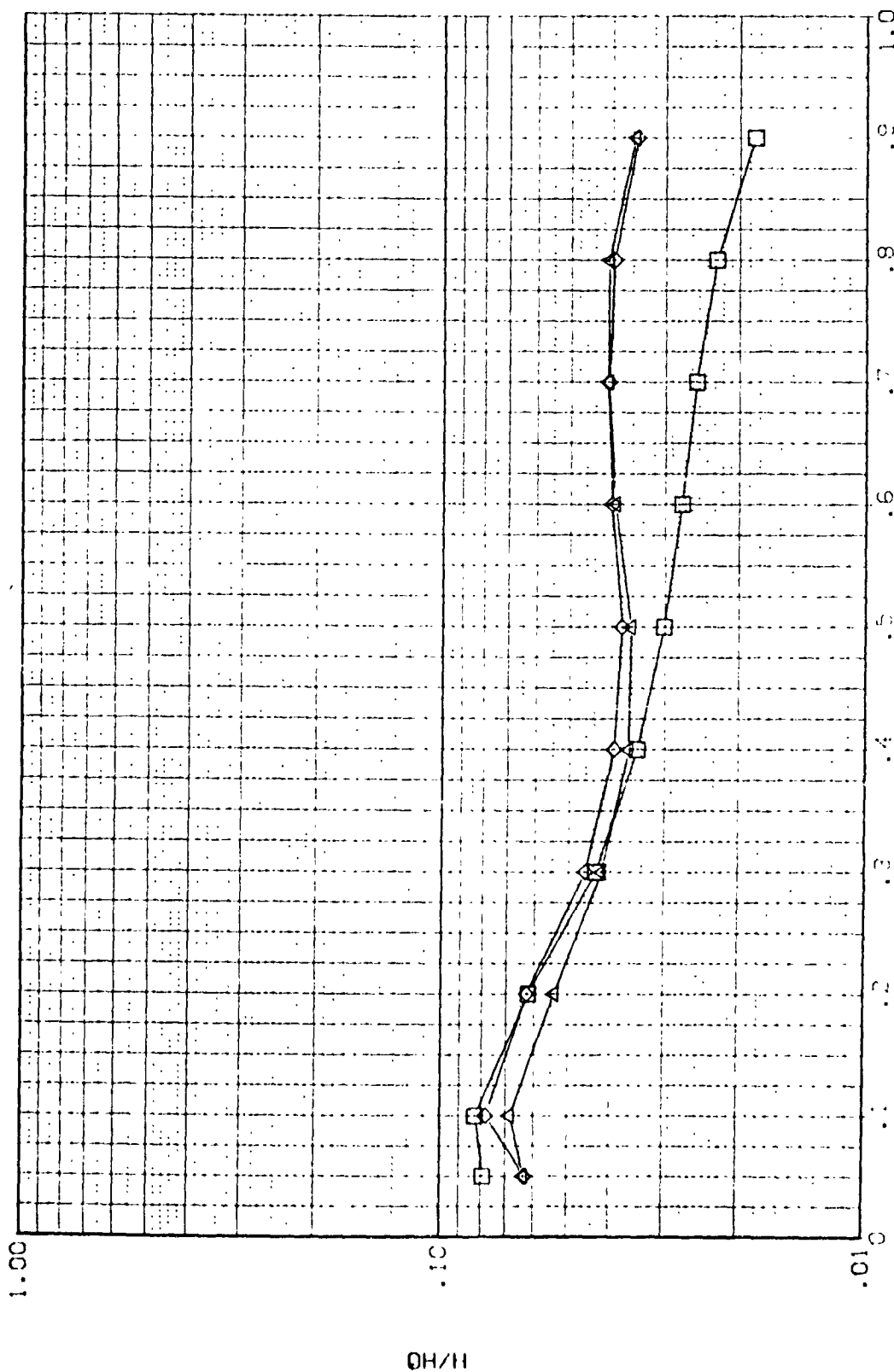
FIG 17 LONGITUDINAL WING STATION. X/C. FRACTION OF LOCAL WING CHORD
 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RN/L = 5.000 HAW/H7 = .850 27.8 = .800

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(92-002) DATA NOT AVAILABLE
 (92-003) 0-14 B22C7F5M4V7W111 WING LOWER SURFACE
 (92-004) 0-14 B22C7F5M4V7W111 WING LOWER SURFACE
 (92-005) 0-14 B22C7F5M4V7W111 WING LOWER SURFACE

ALPHA 20.000
 BETA .000
 VACH 8.000



LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD

FIG 17 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

PN/L = 5.000 HAW/HT = .900 2V B = .400

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (PCLWC2) DATA NOT AVAILABLE
 (PCLWC3) CH14 B22C75M4V7W111 WING LOWER SURFACE
 (PCLWC4) CH14 B22C75M4V7W111 WING LOWER SURFACE
 (PCLWC5) CH14 B22C75M4V7W111 WING LOWER SURFACE

ALPHA BETA MACH
 25.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 9.000

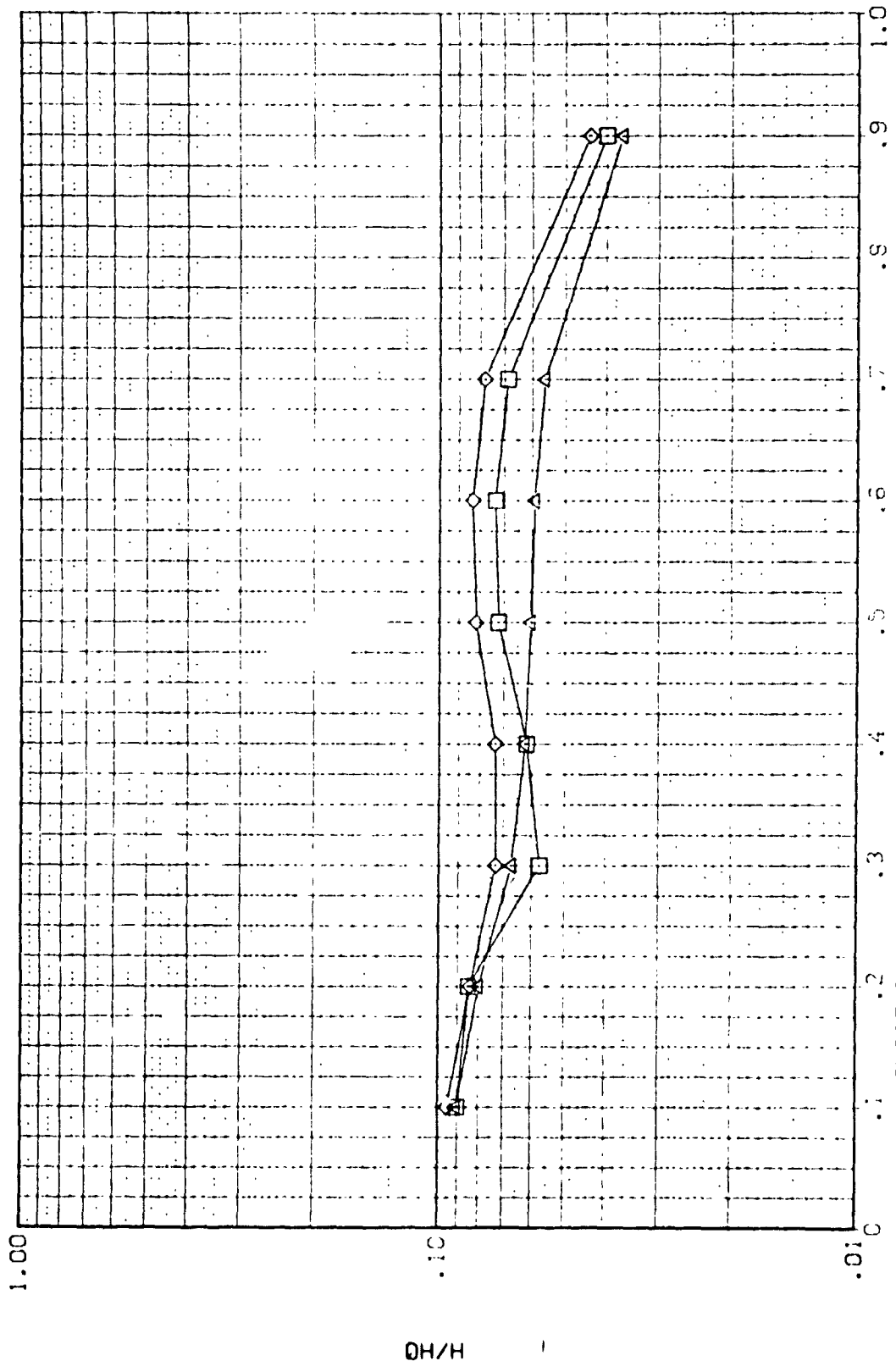
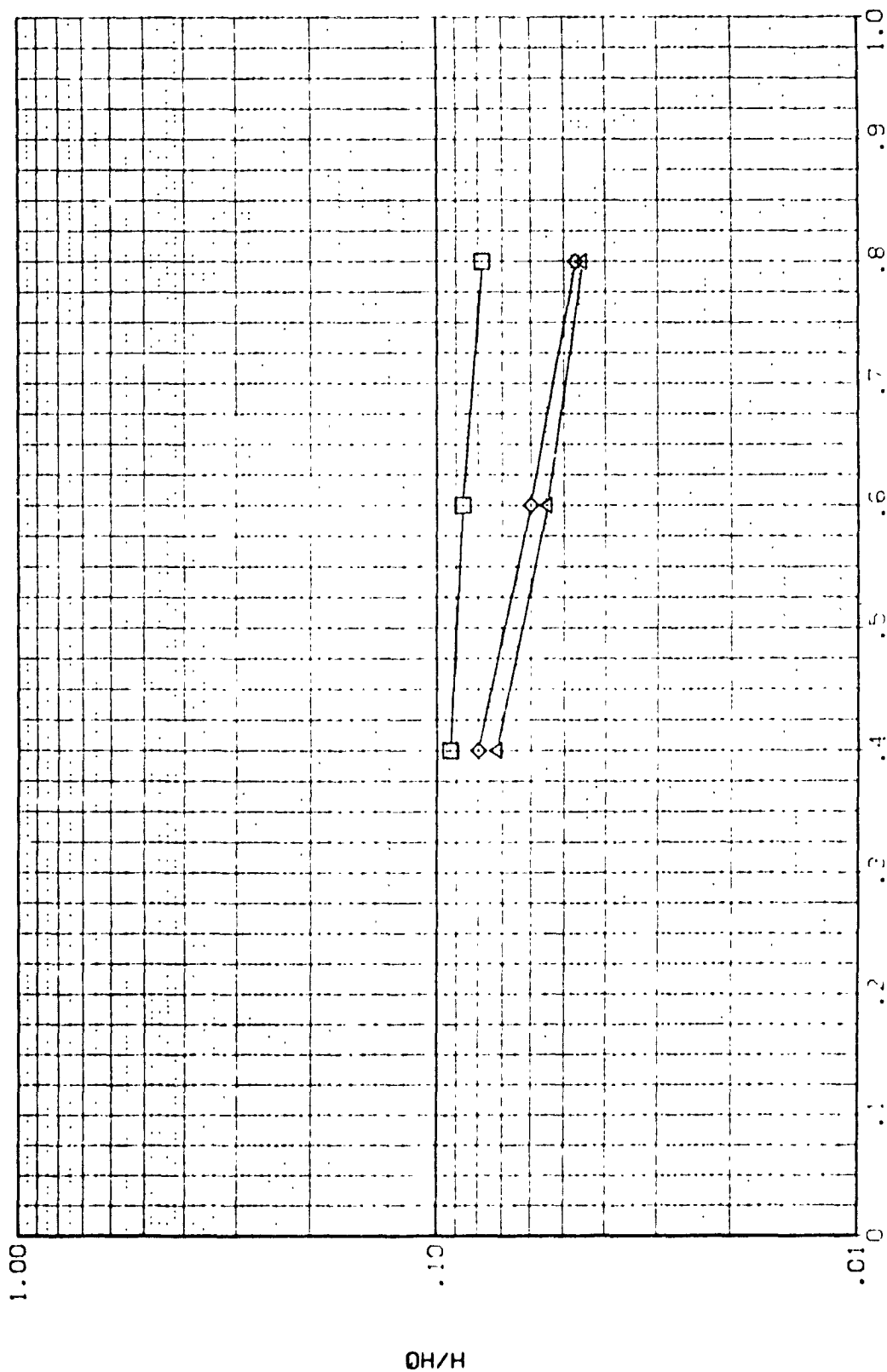


FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RV/L = 5.000 HAWK = .900 2/13 = .600

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (P2LW02) DATA NOT AVAILABLE
 (P2LW03) DH14 B22C7F5M4V7M11 WING LOWER SURFACE
 (P2LW04) DH14 B22C7F5M4V7M11 WING LOWER SURFACE
 (P2LW05) DH14 B22C7F5M4V7M11 WING LOWER SURFACE

ALPHA BETA MACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000



LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD

FIG 17 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RN/L = 5.000 HAW/H = .900 2V B = .200

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|---|--------|------|-------|
| (P2.002) | ○ | OH14 B22C7F5M4V7W111 WING LOWER SURFACE | 20.000 | .000 | 8.000 |
| (P2.003) | ○ | OH14 B22C7F5M4V7W111 WING LOWER SURFACE | 25.000 | .000 | 8.000 |
| (P2.004) | ○ | OH14 B22C7F5M4V7W111 WING LOWER SURFACE | 30.000 | .000 | 8.000 |
| (P2.005) | ○ | OH14 B22C7F5M4V7W111 WING LOWER SURFACE | 35.000 | .000 | 8.000 |

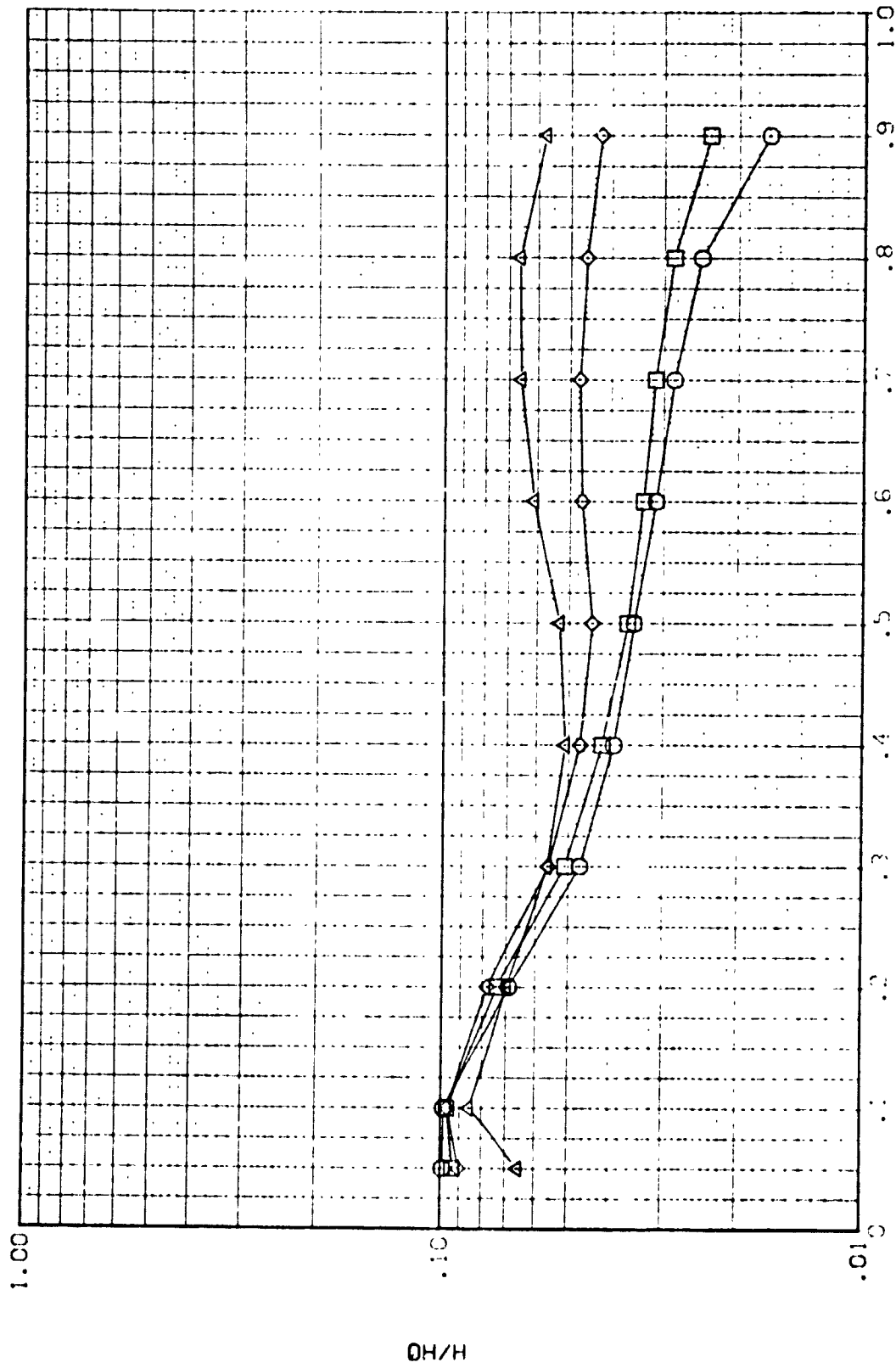


FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

Re/L = 6.000 Max/H0 = .450 Re/B = .400

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (P2-002) | □ | 0414 B22CFSV4.7(11) WING LOWER SURFACE | 20.000 | .000 | 8.000 |
| (P2-003) | ◇ | 0414 B22CFSV4.7(11) WING LOWER SURFACE | 25.000 | .000 | 8.000 |
| (P2-004) | △ | 0414 B22CFSV4.7(11) WING LOWER SURFACE | 30.000 | .000 | 8.000 |
| (P2-005) | ○ | 0414 B22CFSV4.7(11) WING LOWER SURFACE | 35.000 | .000 | 8.000 |

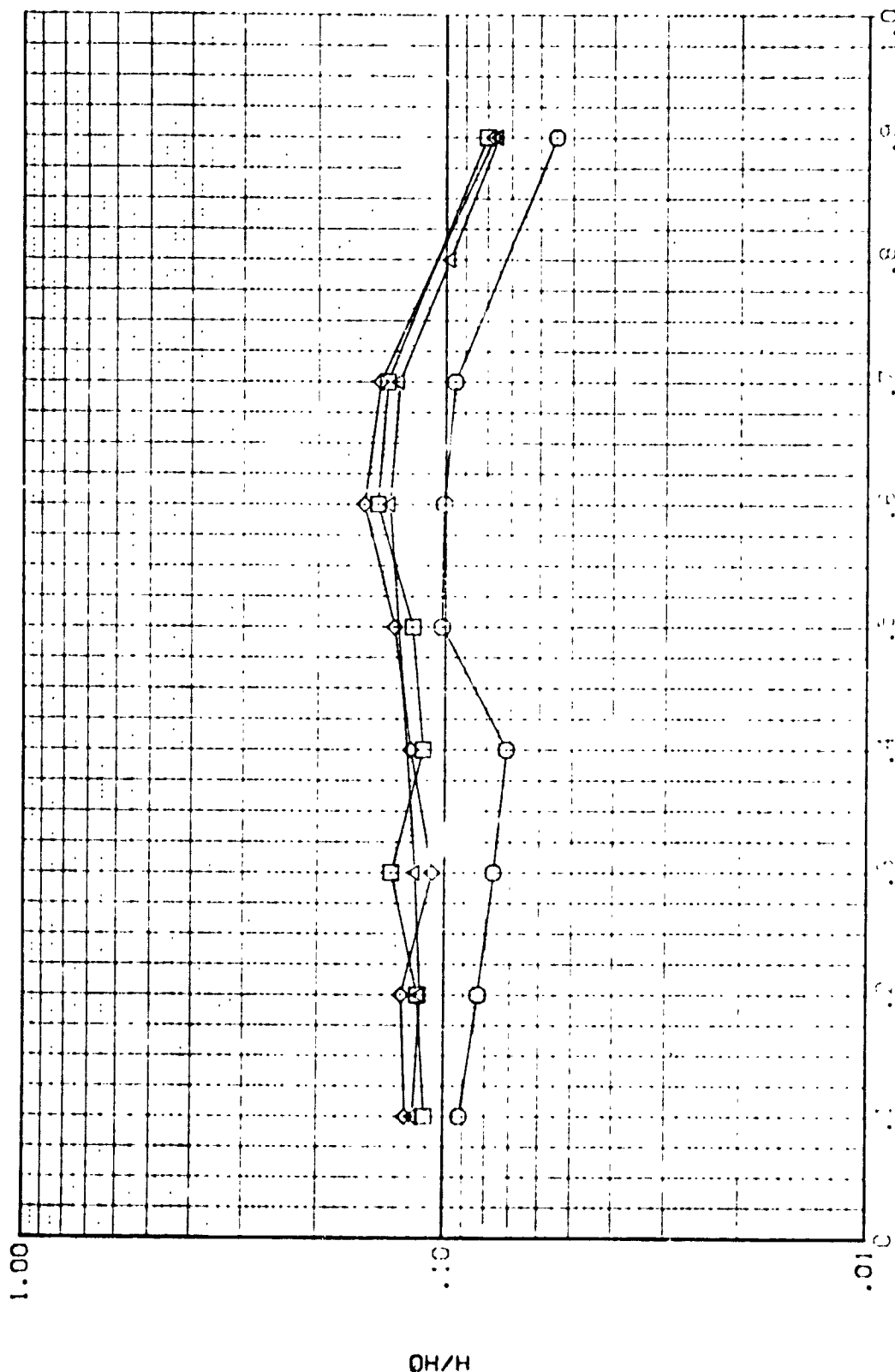


FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RN/L = 6.000 HAWK - .850 C/B = .800 PAGE 216

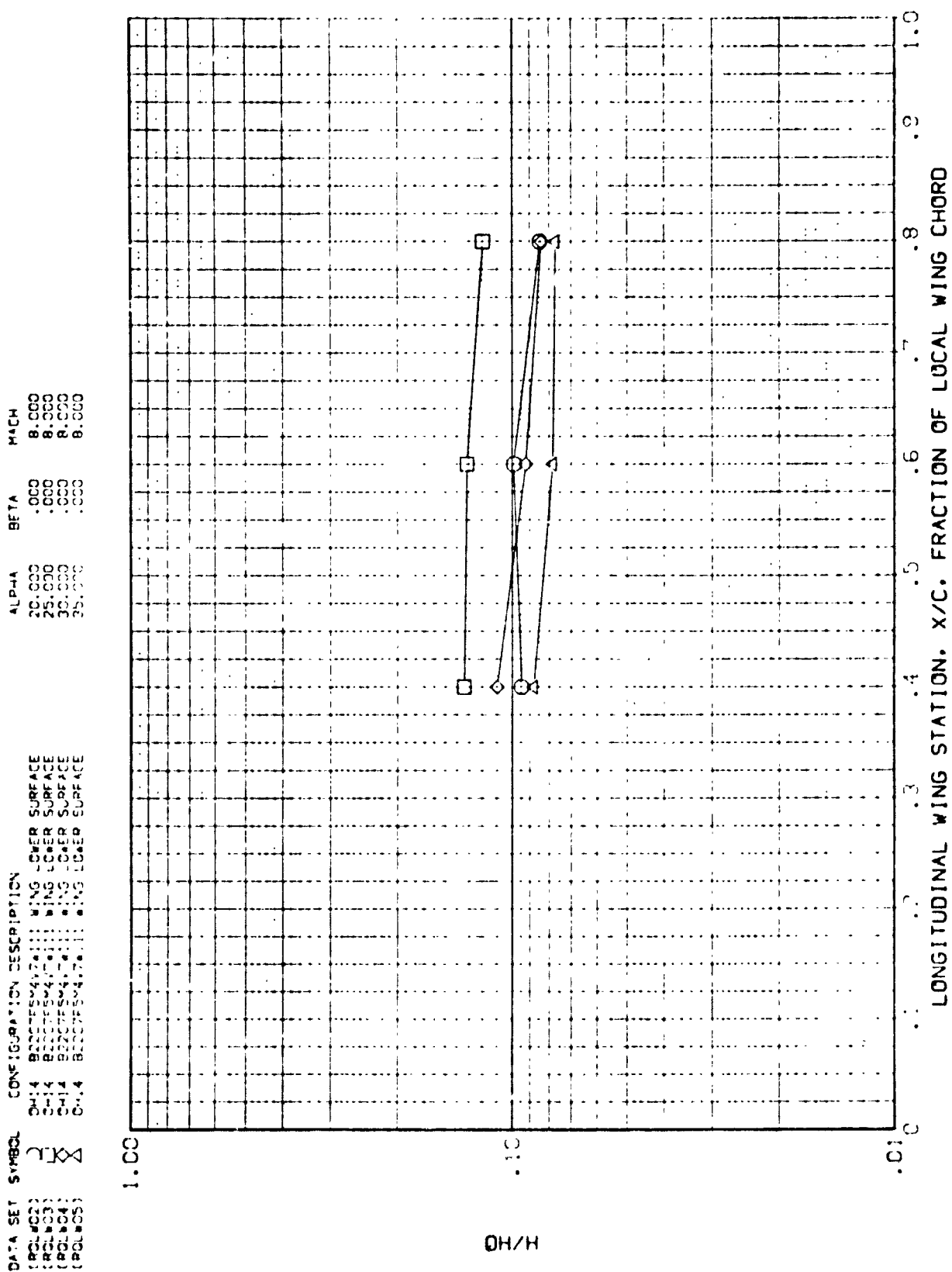


FIG 17 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

R/V/L = 6.000 W/F/W = 1.500 P/R = 1.800

PAGE 217

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RQLW02) O-14 B22C7E5-474111 WING LOWER SURFACE

(RQLW03) O-14 B22C7E5-474111 WING LOWER SURFACE

(RQLW04) O-14 B22C7E5-474111 WING LOWER SURFACE

(RQLW05) O-14 B22C7E5-474111 WING LOWER SURFACE

ALPHA BETA MACH

20.000 .000 8.000

25.000 .000 8.000

30.000 .000 8.000

35.000 .000 8.000

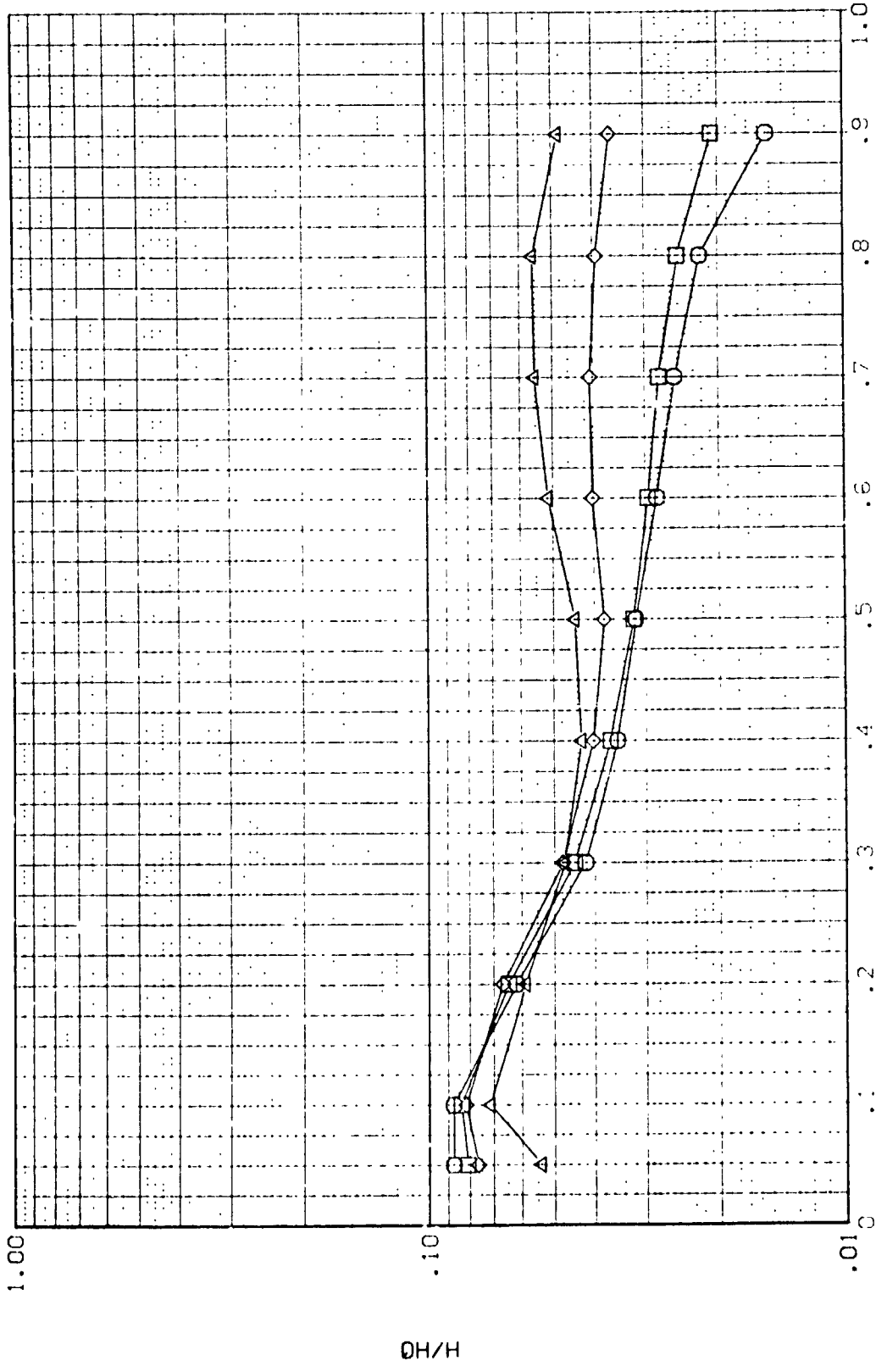


FIG 17 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RN/L = 6.000 $\alpha = 4.7^\circ$ $\beta = .400$

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (RQW02) | ○ | C-14 B22C75V4V7W111 WING LOWER SURFACE | 20.000 | .000 | 8.000 |
| (RQW03) | □ | C-14 B22C75V4V7W111 WING LOWER SURFACE | 25.000 | .000 | 8.000 |
| (RQW04) | △ | C-14 B22C75V4V7W111 WING LOWER SURFACE | 30.000 | .000 | 8.000 |
| (RQW05) | ◇ | C-14 B22C75V4V7W111 WING LOWER SURFACE | 35.000 | .000 | 8.000 |

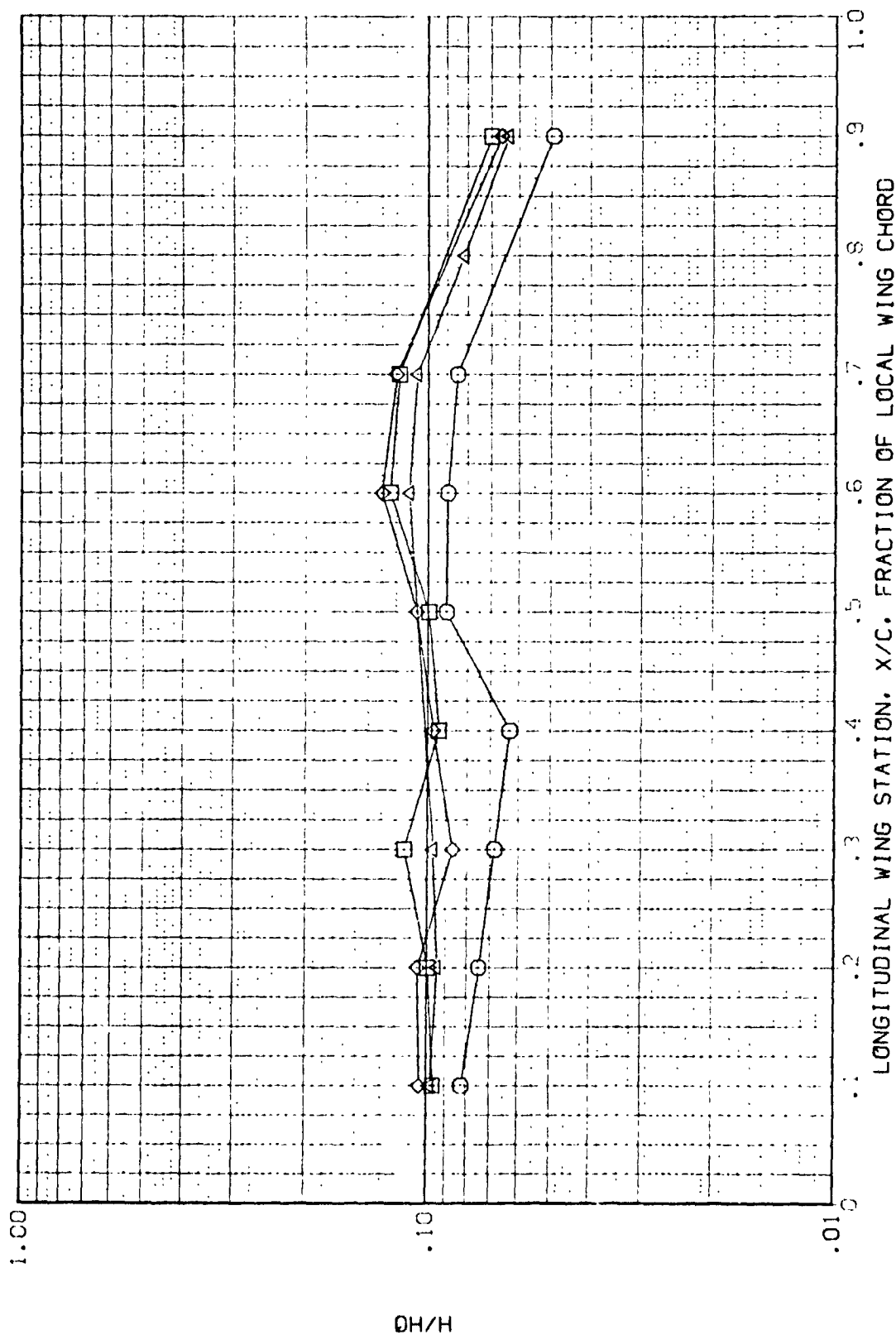


FIG 17 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD

RN/L = 5.000 H⁴W/HI = .900 2⁴/B = .600

DATA SET SYMBOL
(RQW02)
(RQW03)
(RQW04)
(RQW05)

CONFIGURATION DESCRIPTION
CH14 B22C75M4V7W111 WING LOWER SURFACE
CH14 B22C75M4V7W111 WING LOWER SURFACE
CH14 B22C75M4V7W111 WING LOWER SURFACE
CH14 B22C75M4V7W111 WING LOWER SURFACE

ALPHA BETA MACH
20.000 .000 8.000
25.000 .000 8.000
30.000 .000 8.000
35.000 .000 8.000

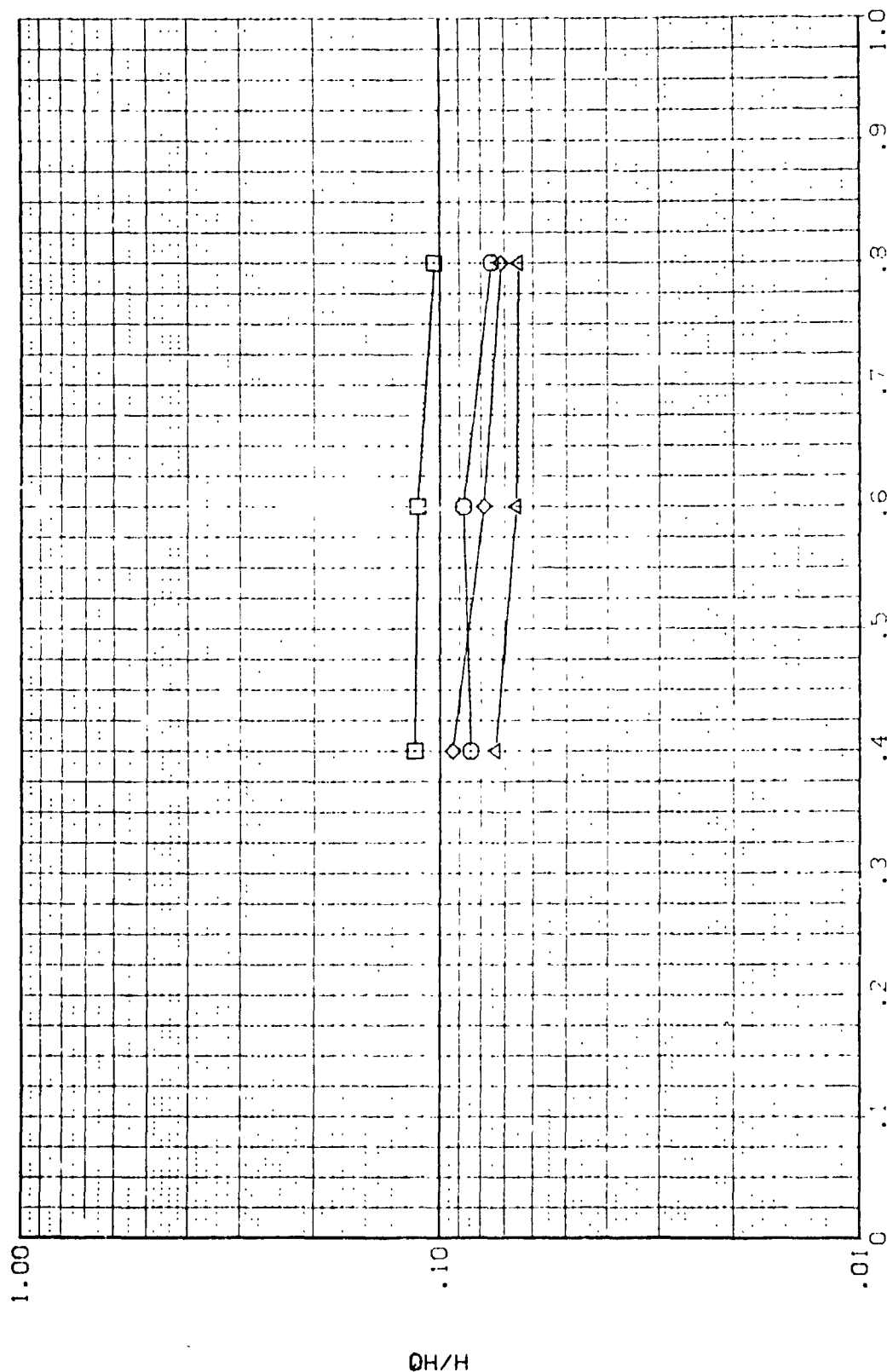


FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RN/L = 6.000 H4W/H1 = .900 2Y/B = .800 PAGE 220

DATA SET SYMBOL CONFIGURATION DESCRIPTION

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION |
|-----------------|---|
| (RQ1W02) | OH:4 B22C7F5M4V7W111 WING LOWER SURFACE |
| (RQ1W03) | OH:4 B22C7F5M4V7W111 WING LOWER SURFACE |
| (RQ1W04) | OH:4 B22C7F5M4V7W111 WING LOWER SURFACE |
| (RQ1W05) | OH:4 B22C7F5M4V7W111 WING LOWER SURFACE |

ALPHA BETA MACH

| ALPHA | BETA | MACH |
|--------|------|-------|
| 20.000 | .000 | 8.000 |
| 25.000 | .000 | 8.000 |
| 30.000 | .000 | 8.000 |
| 35.000 | .000 | 8.000 |

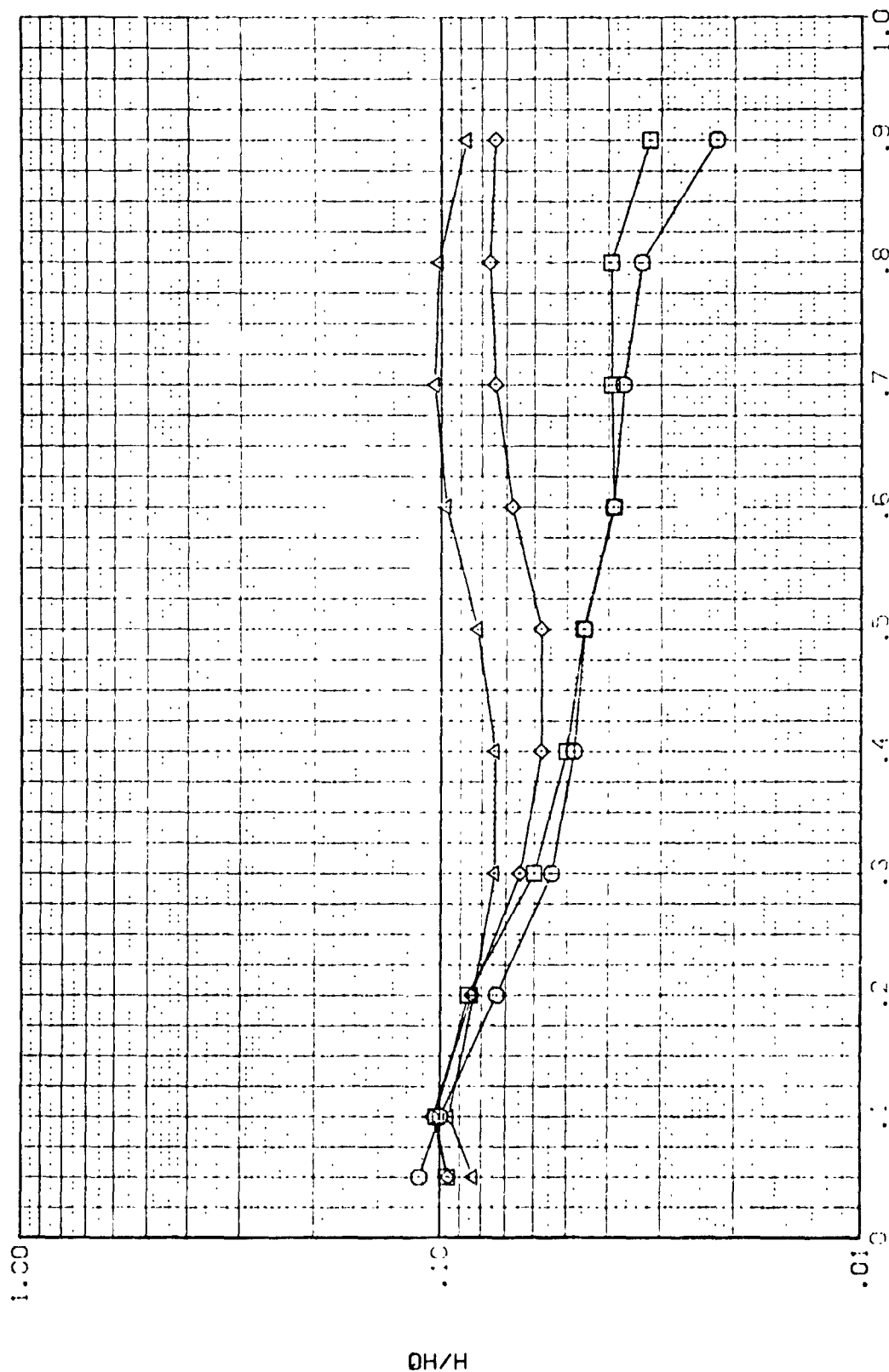
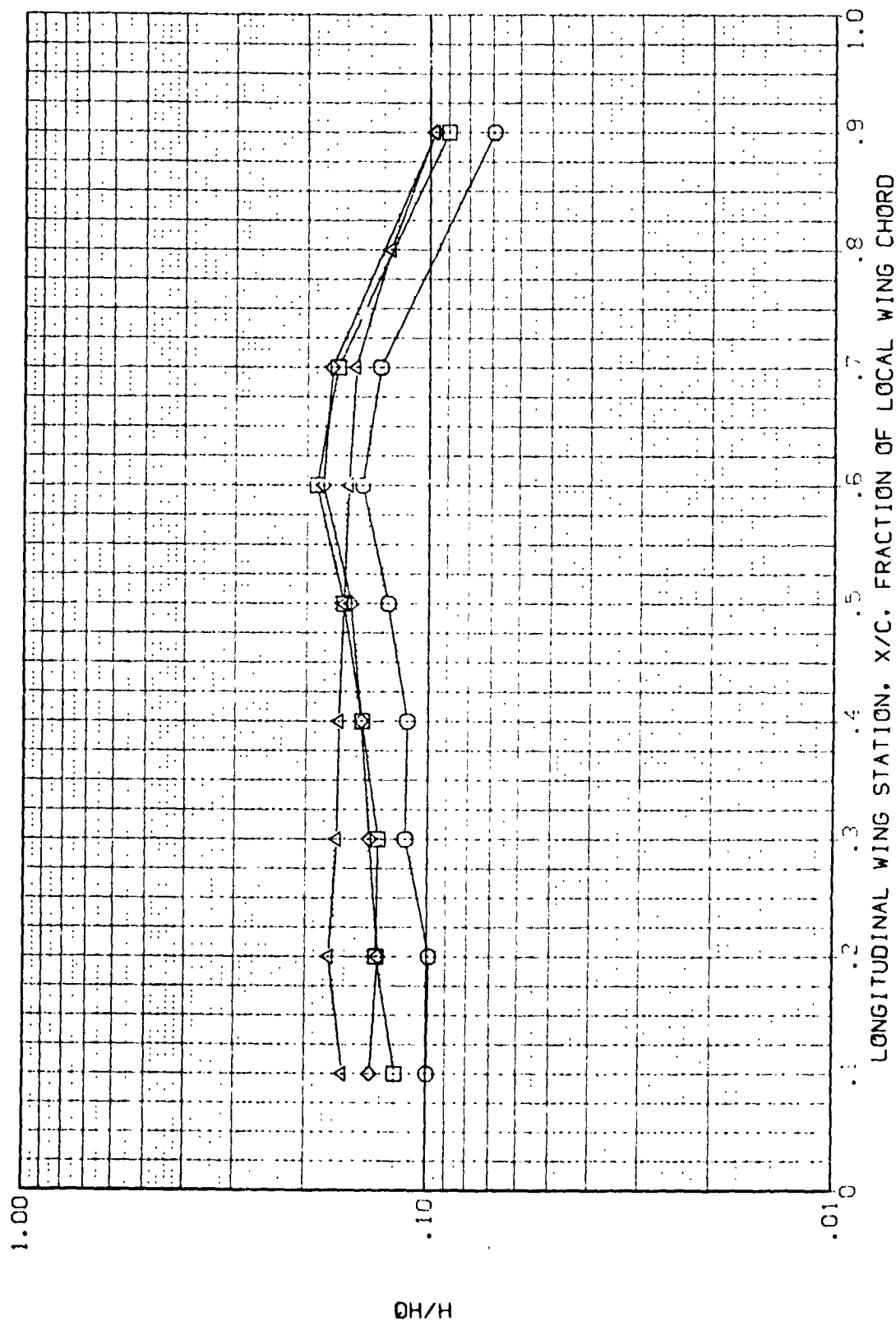


FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (ROLW02) | ○ | CH14 B2C7F5M4V7N111 WING LOWER SURFACE | 20.000 | .000 | 8.000 |
| (ROLW03) | □ | CH14 C7F5M4V7N111 WING LOWER SURFACE | 25.000 | .000 | 8.000 |
| (ROLW04) | △ | CH14 C7F5M4V7N111 WING LOWER SURFACE | 30.000 | .000 | 8.000 |
| (ROLW05) | ◇ | CH14 B2C7F5M4V7N111 WING LOWER SURFACE | 35.000 | .000 | 8.000 |



PW/L = 8.000 HAW/HTE = .850 24.0 .600 PAGE 222

DATA SET SYMBOL CONFIGURATION DESCRIPTION

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION |
|----------|--------|---|
| (POL#02) | □ | CH14 B22C7F5M4V7W111 WING LOWER SURFACE |
| (POL#03) | △ | CH14 B22C7F5M4V7W111 WING LOWER SURFACE |
| (POL#04) | ◇ | CH14 B22C7F5M4.7W111 WING LOWER SURFACE |
| (POL#05) | ○ | CH14 B22C7F5M4V7W111 WING LOWER SURFACE |

ALPHA BETA MACH

| ALPHA | BETA | MACH |
|--------|------|-------|
| 20.000 | .000 | 8.000 |
| 25.000 | .000 | 8.000 |
| 30.000 | .000 | 8.000 |
| 35.000 | .000 | 8.000 |

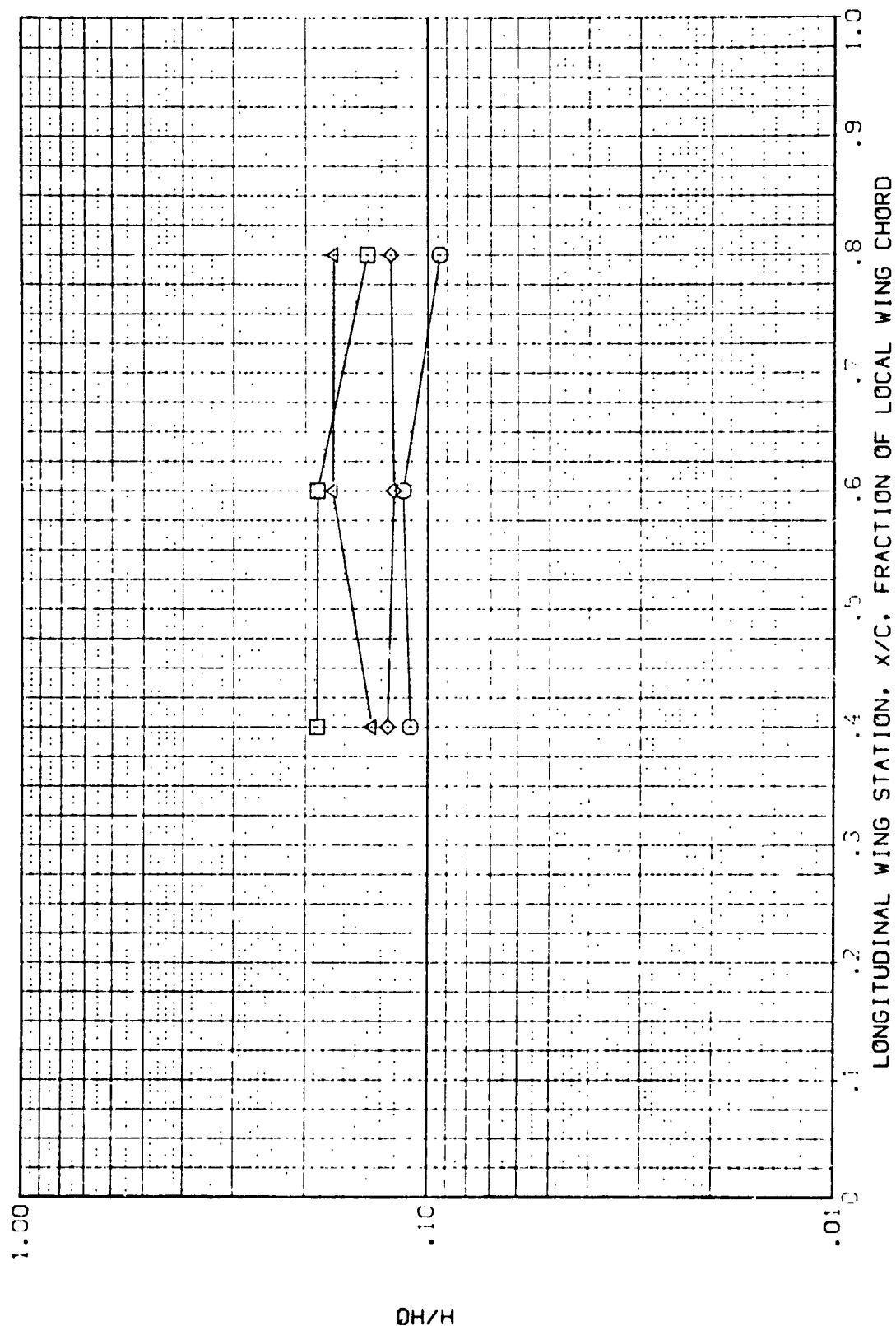


FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RN/L = 8.000 HAW/HT = .950 2V/B = .800

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (RQW02) | □ | OH14 B22C7FS4V7#111 WING LOWER SURFACE | 20.000 | .000 | 8.000 |
| (RQW03) | □ | OH14 B22C7FS4V7#111 WING LOWER SURFACE | 25.000 | .000 | 8.000 |
| (RQW04) | □ | OH14 B22C7FS4V7#111 WING LOWER SURFACE | 30.000 | .000 | 8.000 |
| (RQW05) | △ | OH14 B22C7FS4V7#111 WING LOWER SURFACE | 35.000 | .000 | 8.000 |

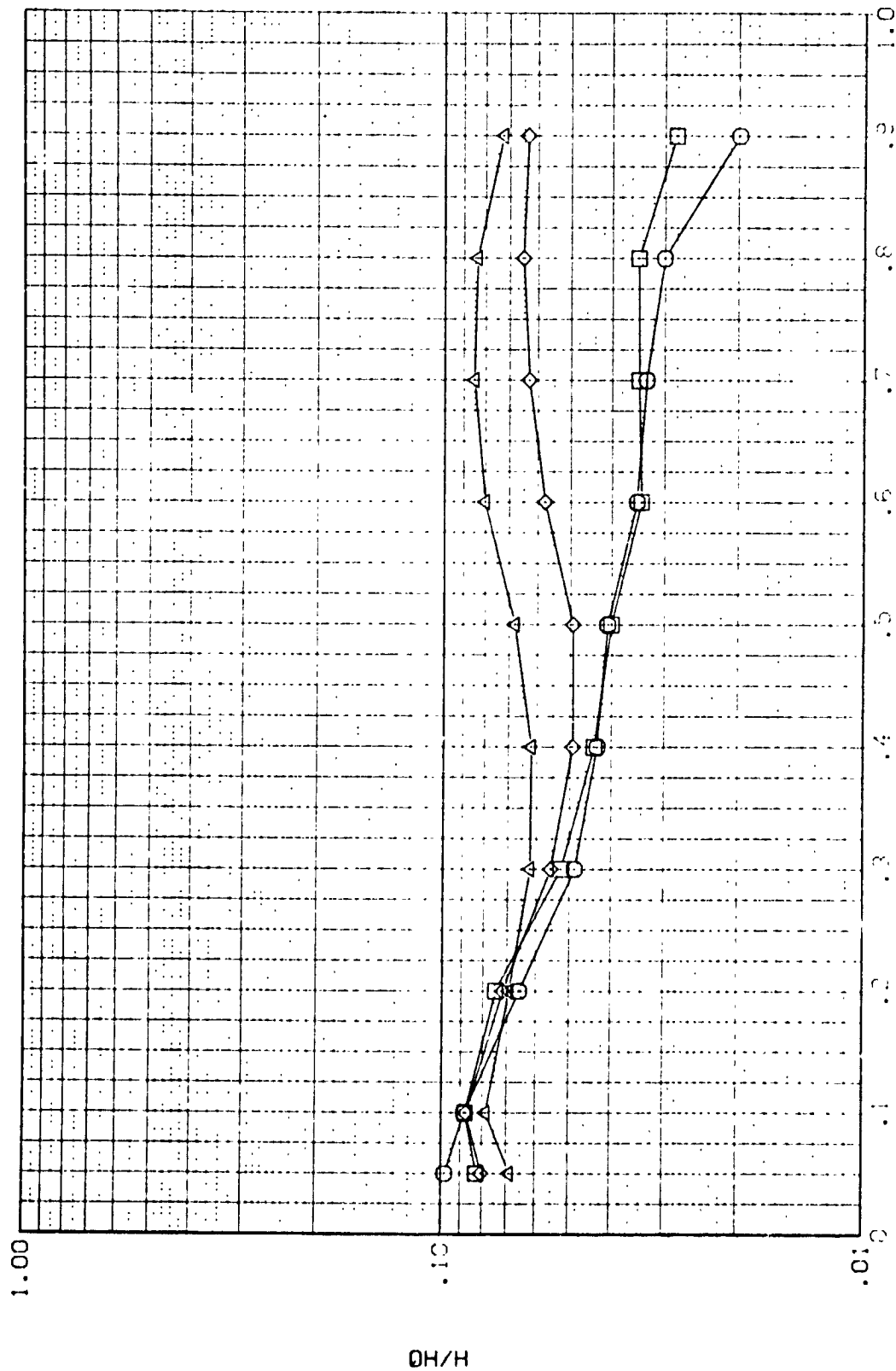


FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RN/L = 8.000 HAW/T = .900 2.43 = .400

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (P2-002) CH-14 B22C7F5V4V7W111 WING LOWER SURFACE
 (P2-003) CH-14 B22C7F5V4V7W111 WING LOWER SURFACE
 (P2-004) CH-14 B22C7F5V4V7W111 WING LOWER SURFACE
 (P2-005) CH-14 B22C7F5V4V7W111 WING LOWER SURFACE

ALPHA BETA MACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000

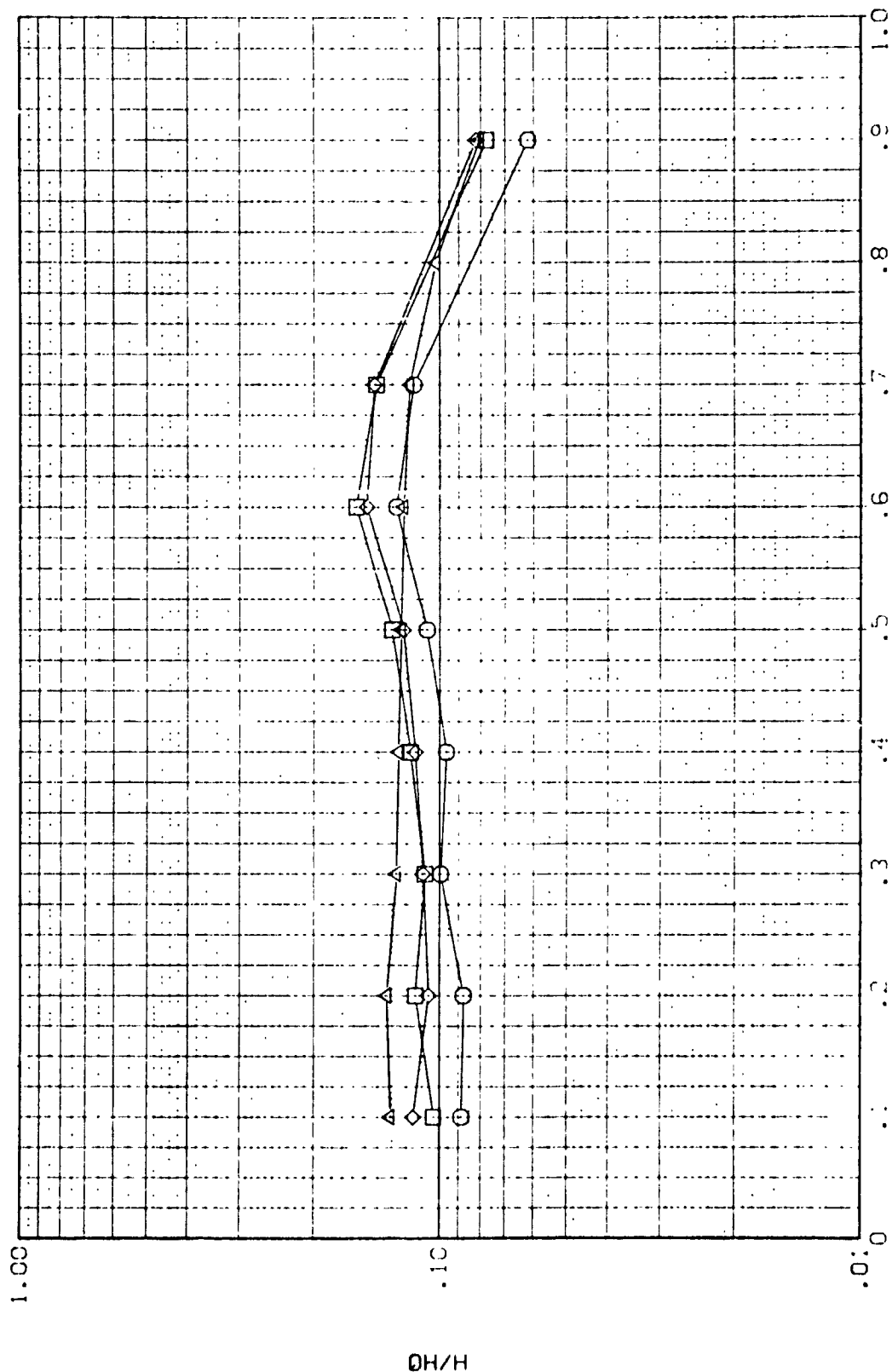


FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RV/L = 8.000 HAWK = .900 2V3 = .600

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|-----------------------------------|--------|------|-------|
| (RQW02) | □ | B2207ES4V7W111 WING LOWER SURFACE | 20.000 | .000 | 8.000 |
| (RQW03) | △ | B2207ES4V7W111 WING LOWER SURFACE | 25.000 | .000 | 8.000 |
| (RQW04) | ◇ | B2207ES4V7W111 WING LOWER SURFACE | 30.000 | .000 | 8.000 |
| (RQW05) | ○ | B2207ES4V7W111 WING LOWER SURFACE | 35.000 | .000 | 8.000 |

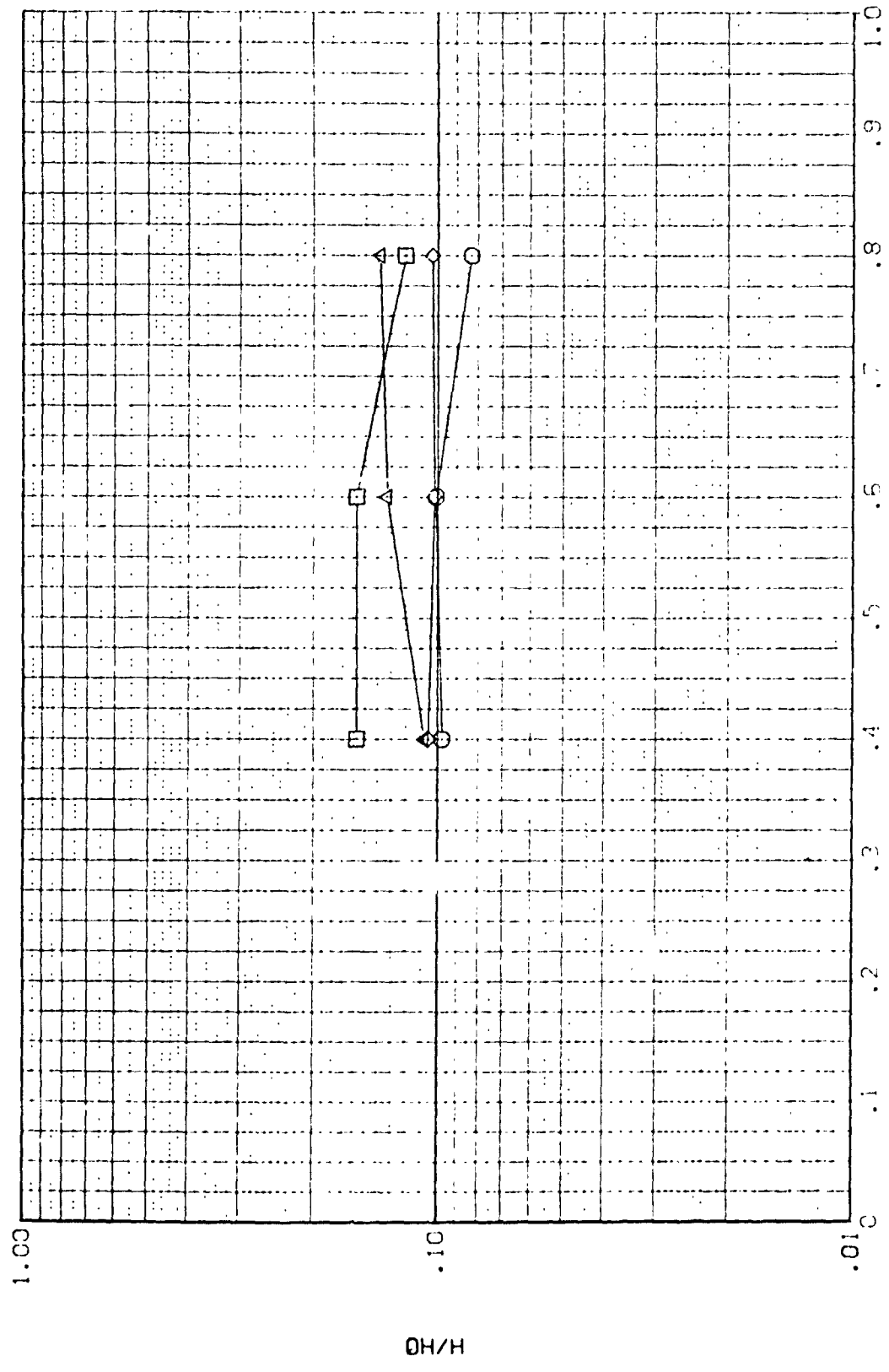


FIG 17 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RQ1WC2) DATA NOT AVAILABLE
 (RQ1WC3) CH14 B22C7ES475W111 WING LOWER SURFACE
 (RQ1WC4) CH14 B22C7ES475W111 WING LOWER SURFACE
 (RQ1WC5) CH14 B22C7ES475W111 WING LOWER SURFACE

ALPHA BETA MACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000

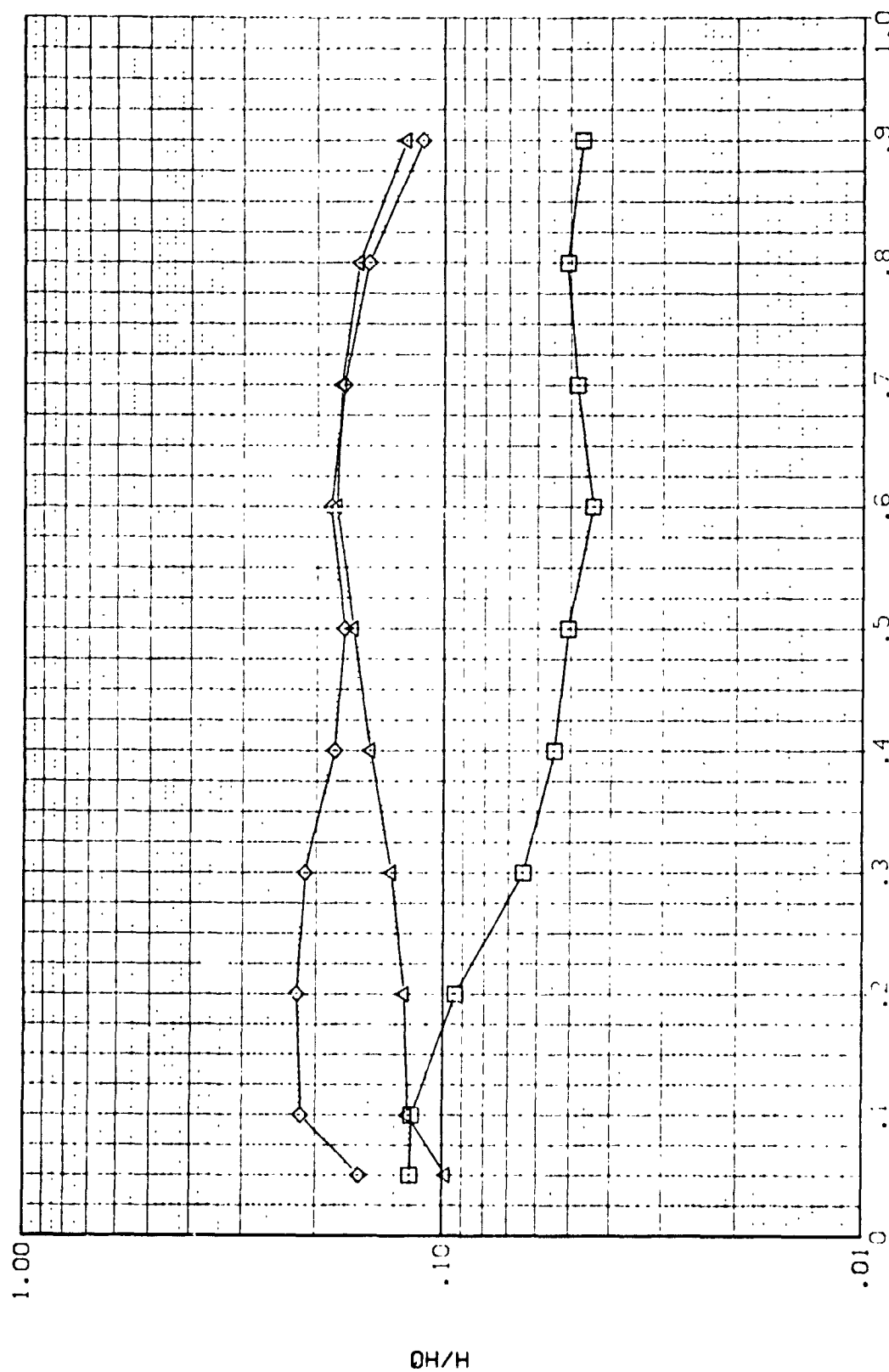


FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RQLWC2) DATA NOT AVAILABLE
 (RQLWC3) C-14 B22C7F5M4V7W111 WING LOWER SURFACE
 (RQLWC4) C-14 B22C7F5M4V7W111 WING LOWER SURFACE
 (RQLWC5) C-14 B22C7F5M4V7W111 WING LOWER SURFACE

ALPHA BETA MACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000

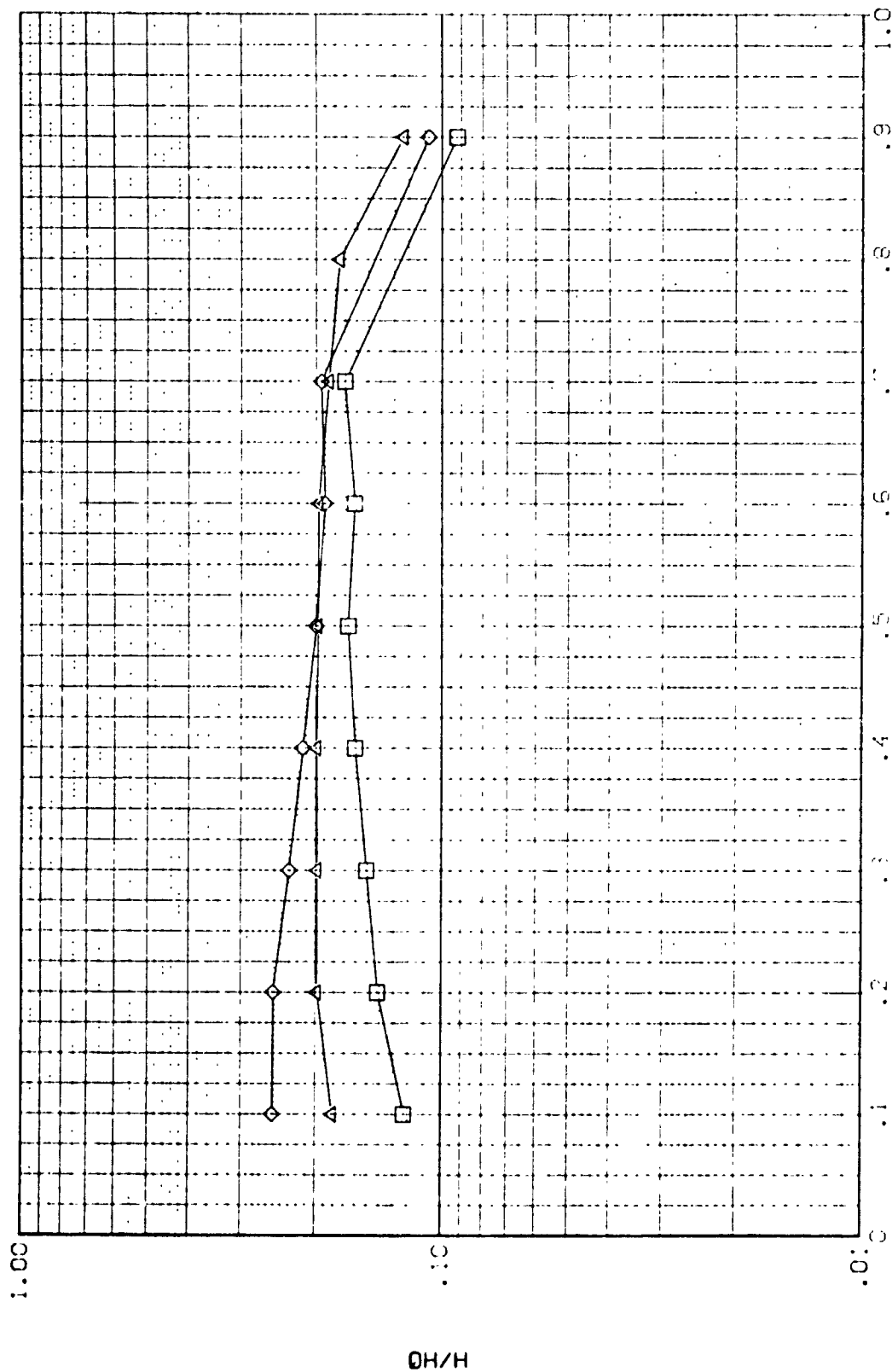


FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RN/L = 10.000 HAW/HTE = .850 P/B = .600 PAGE 228

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(POLWC2) DATA NOT AVAILABLE
 (POLWC3) CH14 B22CTF54V7W111 WING LOWER SURFACE
 (POLWC4) CH14 B22CTF54V7W111 WING LOWER SURFACE
 (POLWC5) CH14 B22CTF54V7W111 WING LOWER SURFACE

ALPHA BETA MACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000

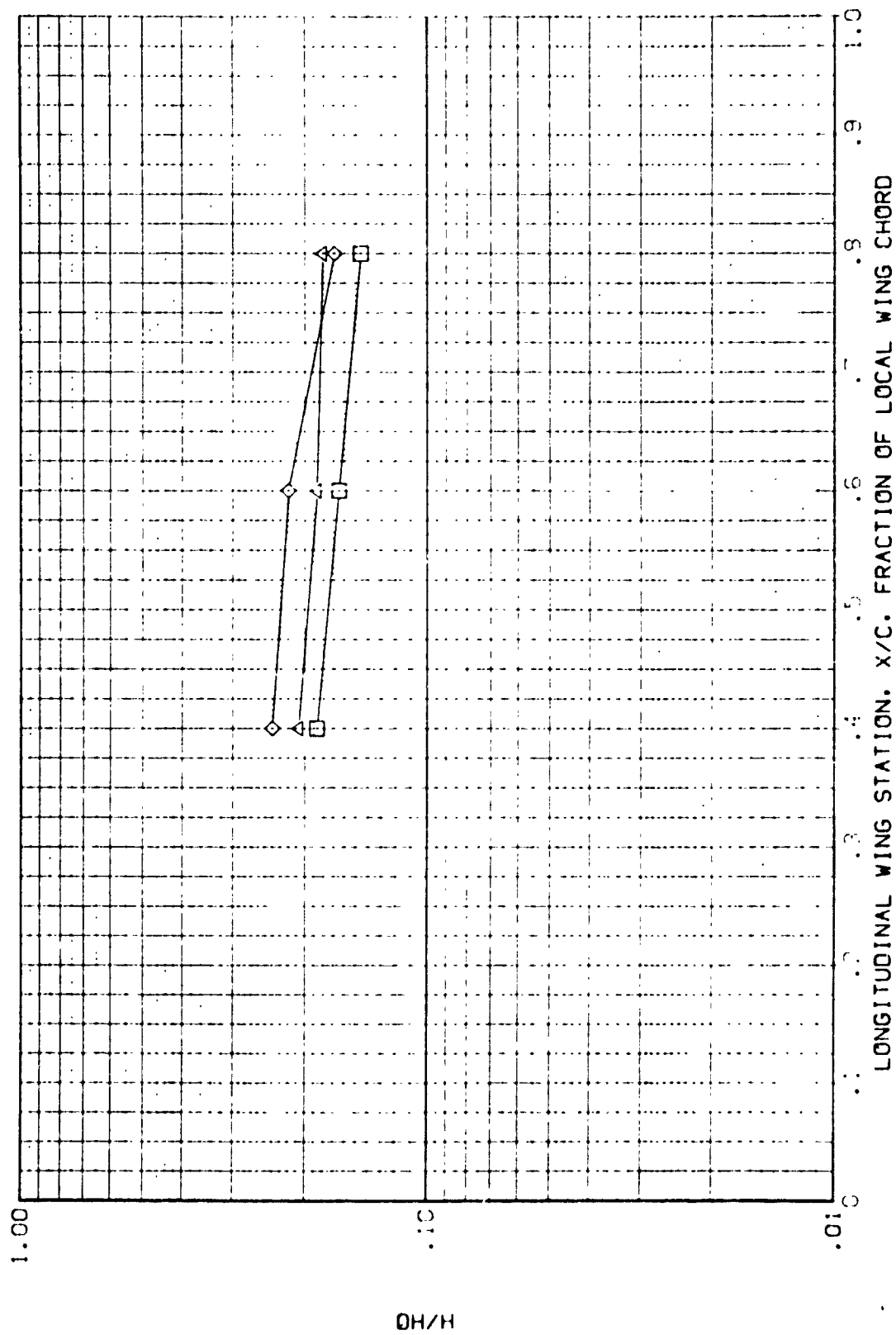


FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

RN/L = 10.000

MAX/LT = .850

Q/R = .800

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (PCL002) DATA NOT AVAILABLE
 (PCL003) CH14 B220FSM47*1111 WING LOWER SURFACE
 (PCL004) CH14 B220FSM47*1111 WING LOWER SURFACE
 (PCL005) CH14 B220FSM47*1111 WING LOWER SURFACE

ALPHA BETA WACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000

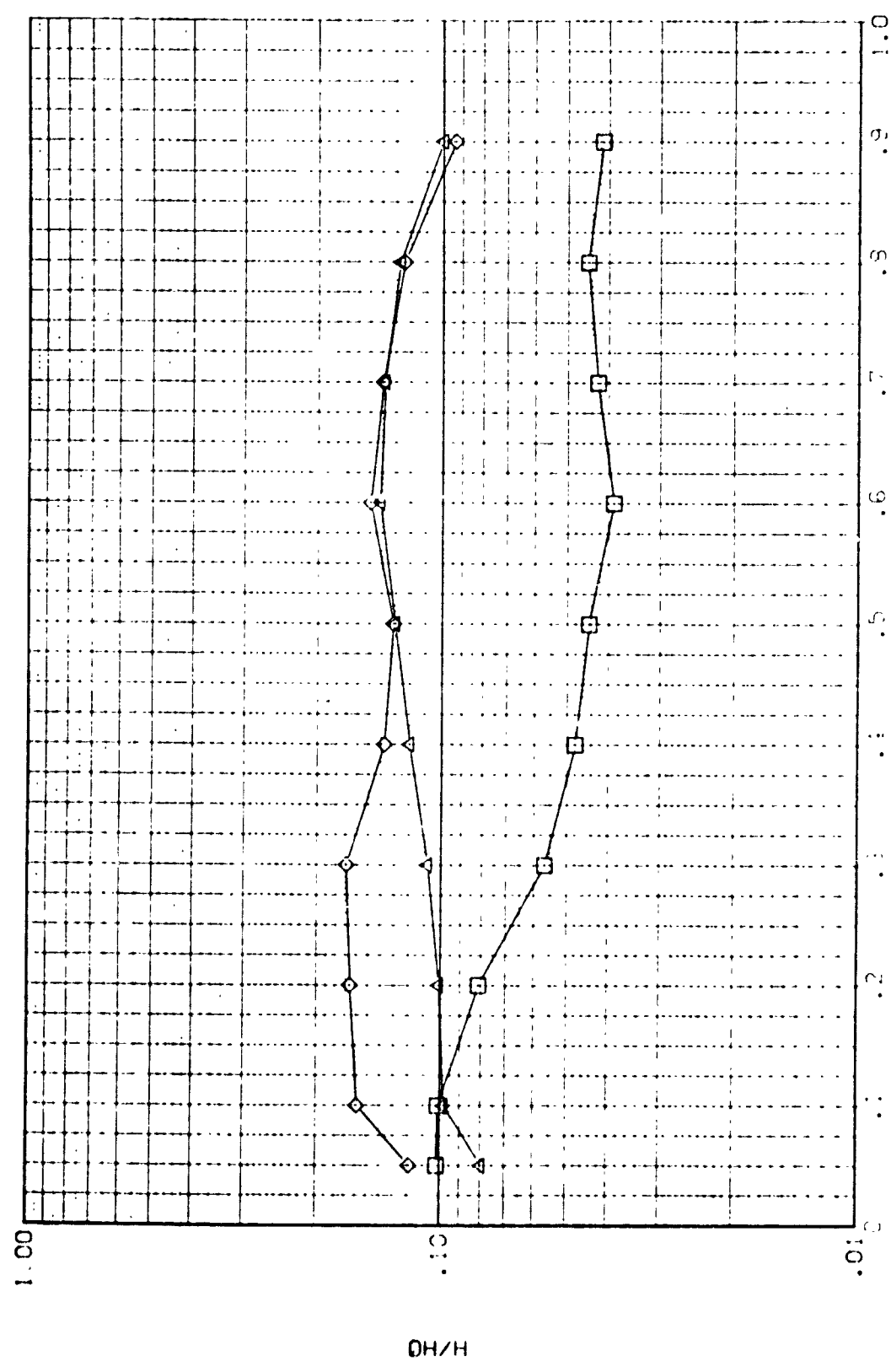


FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (P21-02) DATA NOT AVAILABLE
 (P21-03) 3-14 B22CF5M4.7-111 WING LOWER SURFACE
 (P21-04) 3-14 B22CF5M4.7-111 WING LOWER SURFACE
 (P21-05) 3-14 B22CF5M4.7-111 WING LOWER SURFACE
 (P21-06) 3-14 B22CF5M4.7-111 WING LOWER SURFACE

ALPHA BETA MACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000

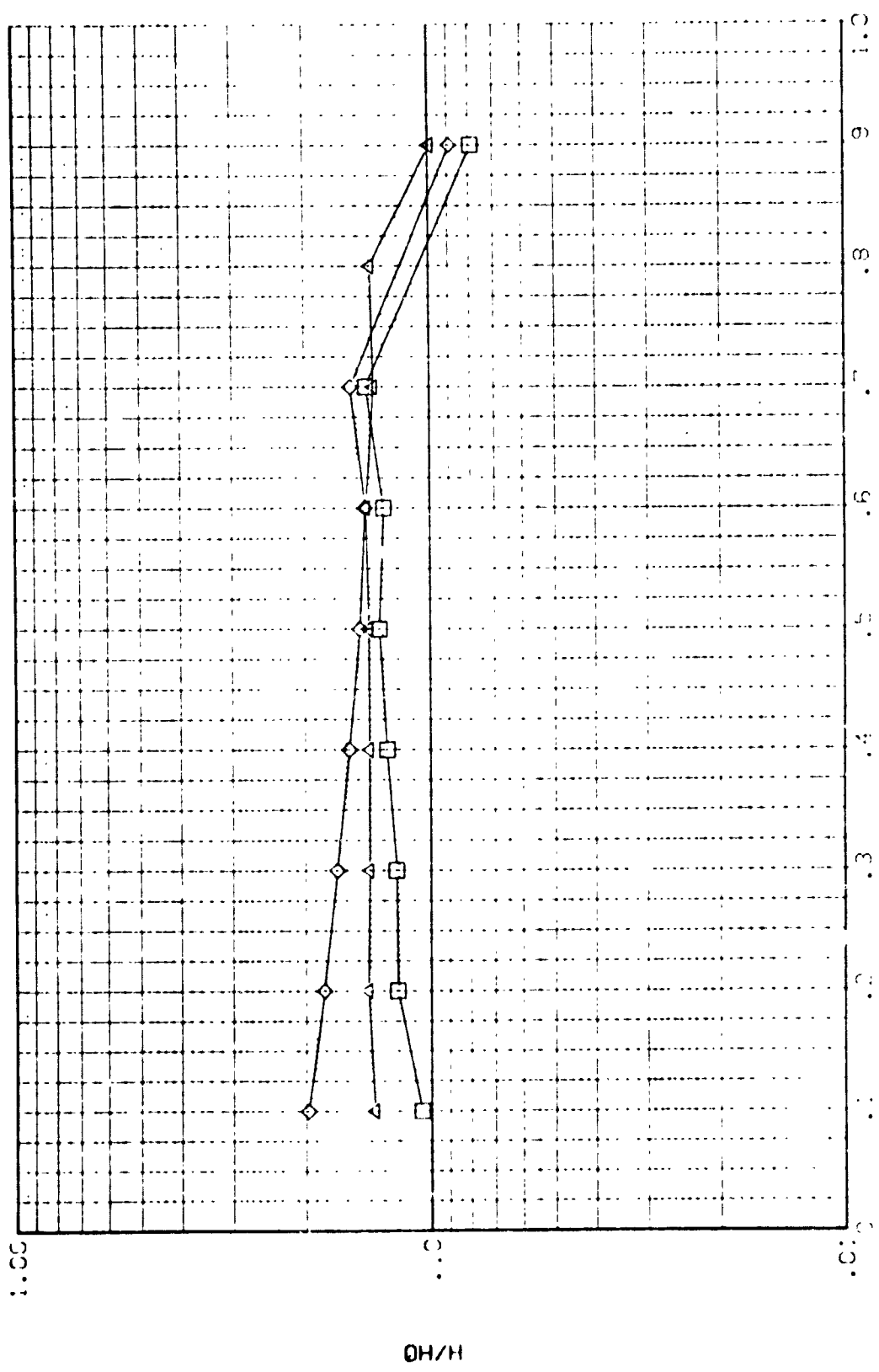






FIG 17 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RCLM02)  (RCLM03)  (RCLM04)  (RCLM05) 

DA 1 NOT AVAILABLE
 0414 B22C75M47#111 WING LOWER SURFACE
 0414 B22C75M47#111 WING LOWER SURFACE
 0414 B22C75M47#111 WING LOWER SURFACE

ALPHA BETA MACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000

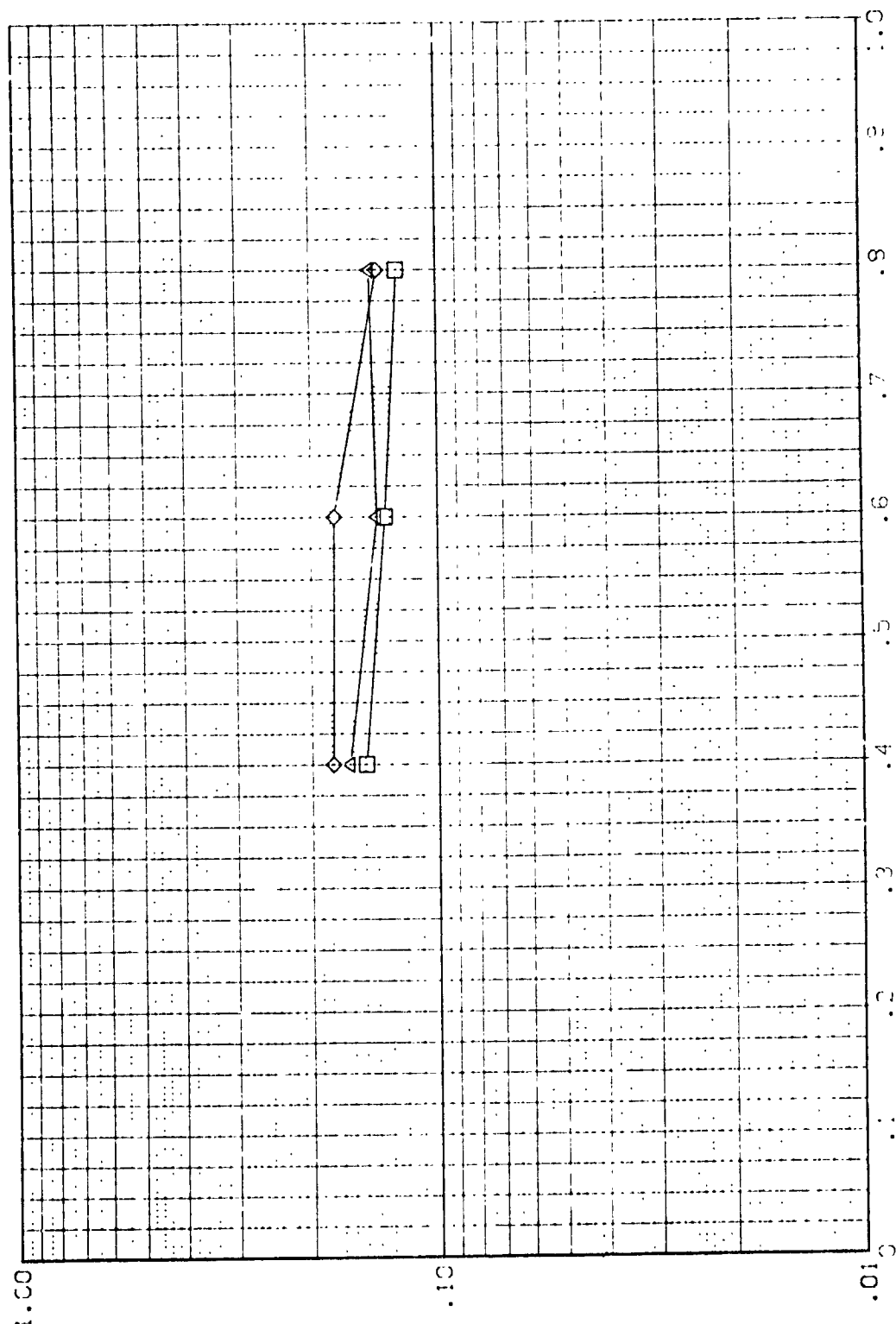


FIG 17 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 VARIATION WITH ANGLE OF ATTACK ON WING LOWER SURFACE

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (RGLS02) | ○ | CH-14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (RGLS03) | □ | CH-14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (RGLS04) | ◇ | CH-14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (RGLS05) | △ | CH-14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

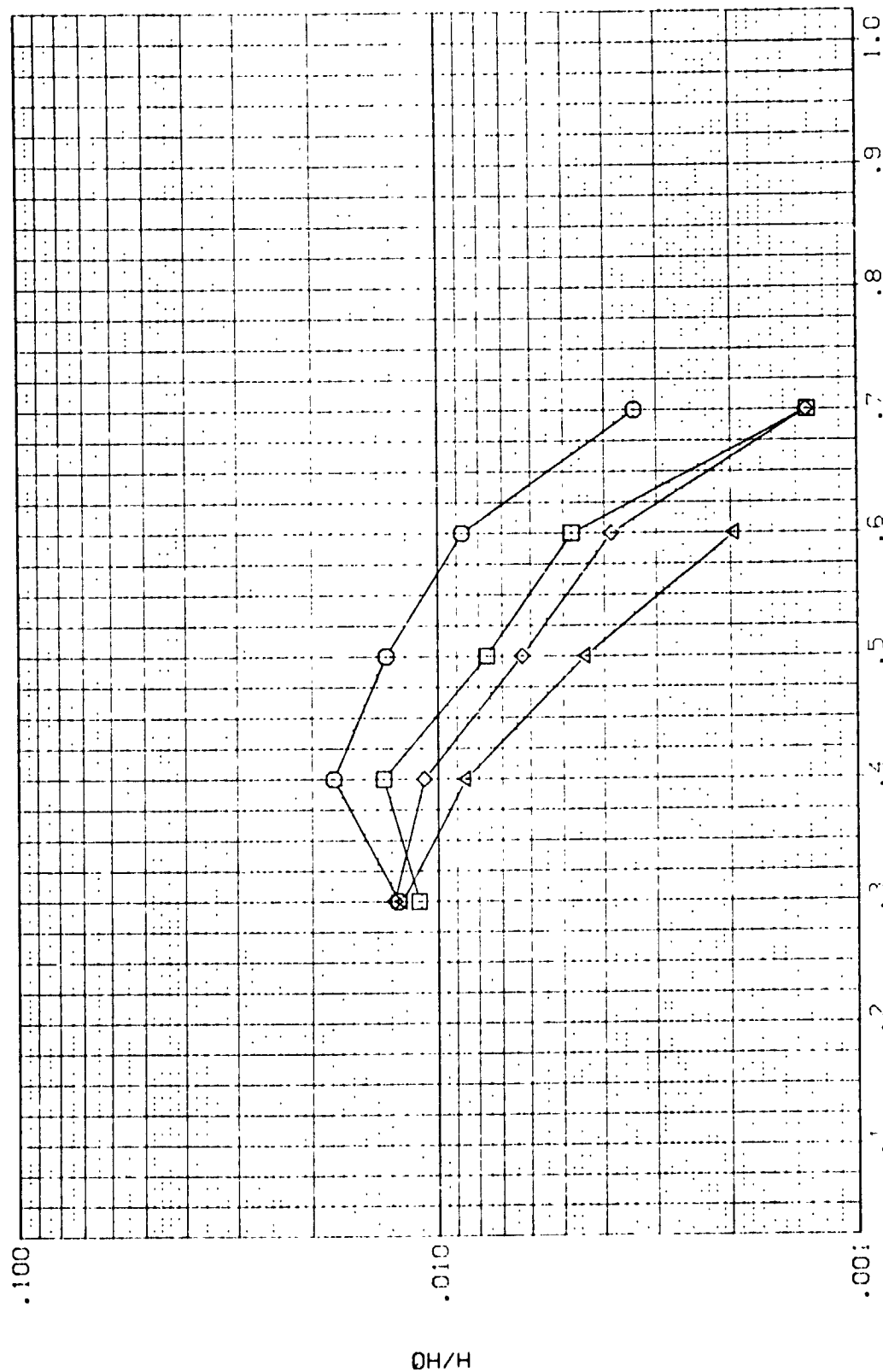


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 1.000 HAW/HUT = .850 W.P. = 375.000

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|-----------------|--|--------|------|-------|
| (R0LS02) | CH14 B22C7F5M47W111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (R0LS03) | CH14 B22C7F5M47W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (R0LS04) | CH14 B22C7F5M47W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (R0LS05) | CH14 B22C7F5M47W111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

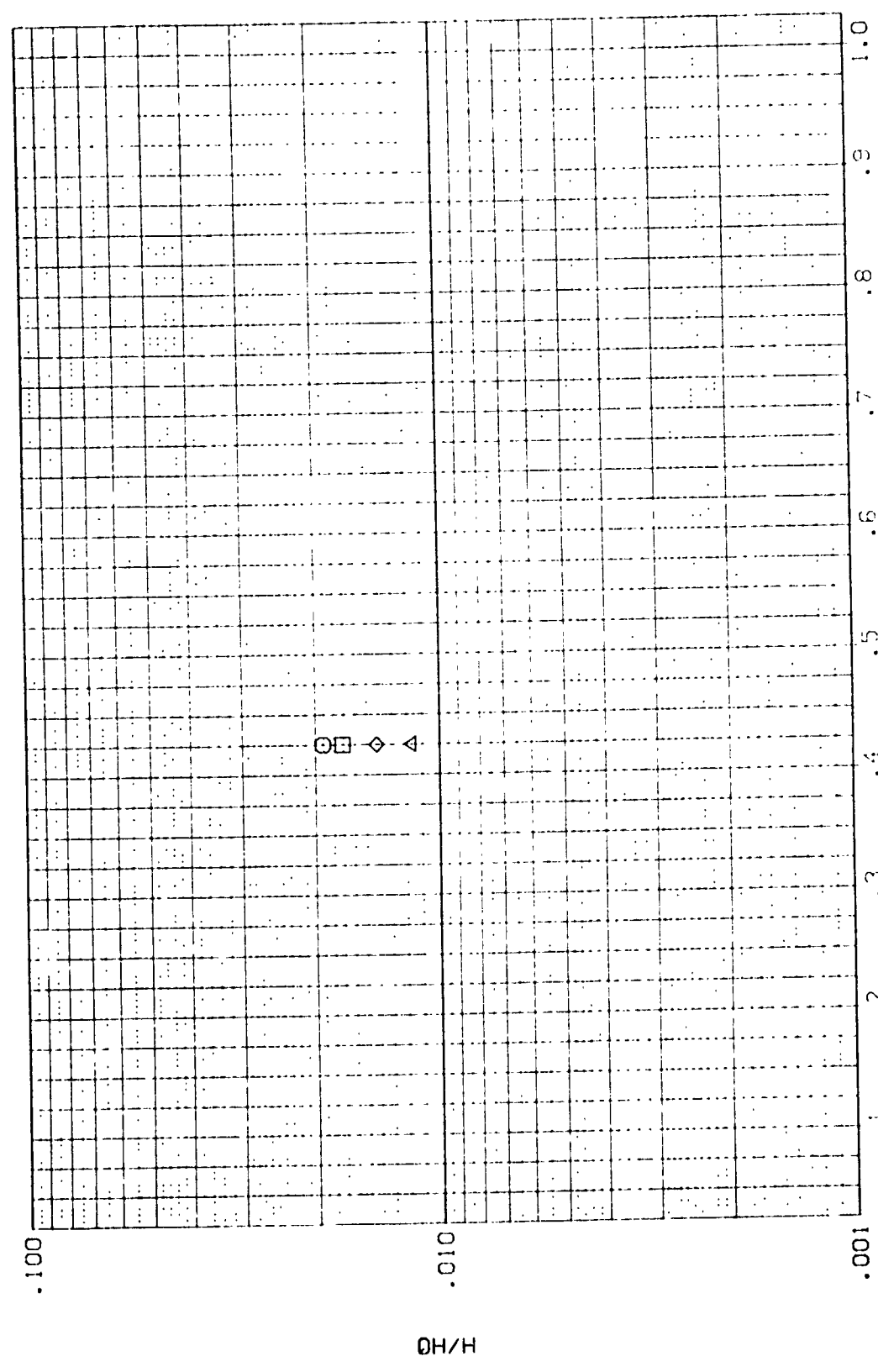


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 1.000 HAW/HT = .850 W.P. = 400.00

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (PCLSC2) | ○ | CH14 B22C7FSM47W111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (PCLSC3) | □ | CH14 B22C7FSM47W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (PCLSC4) | ◇ | CH14 B22C7FSM47W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (PCLSC5) | △ | CH14 B22C7FSM47W111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

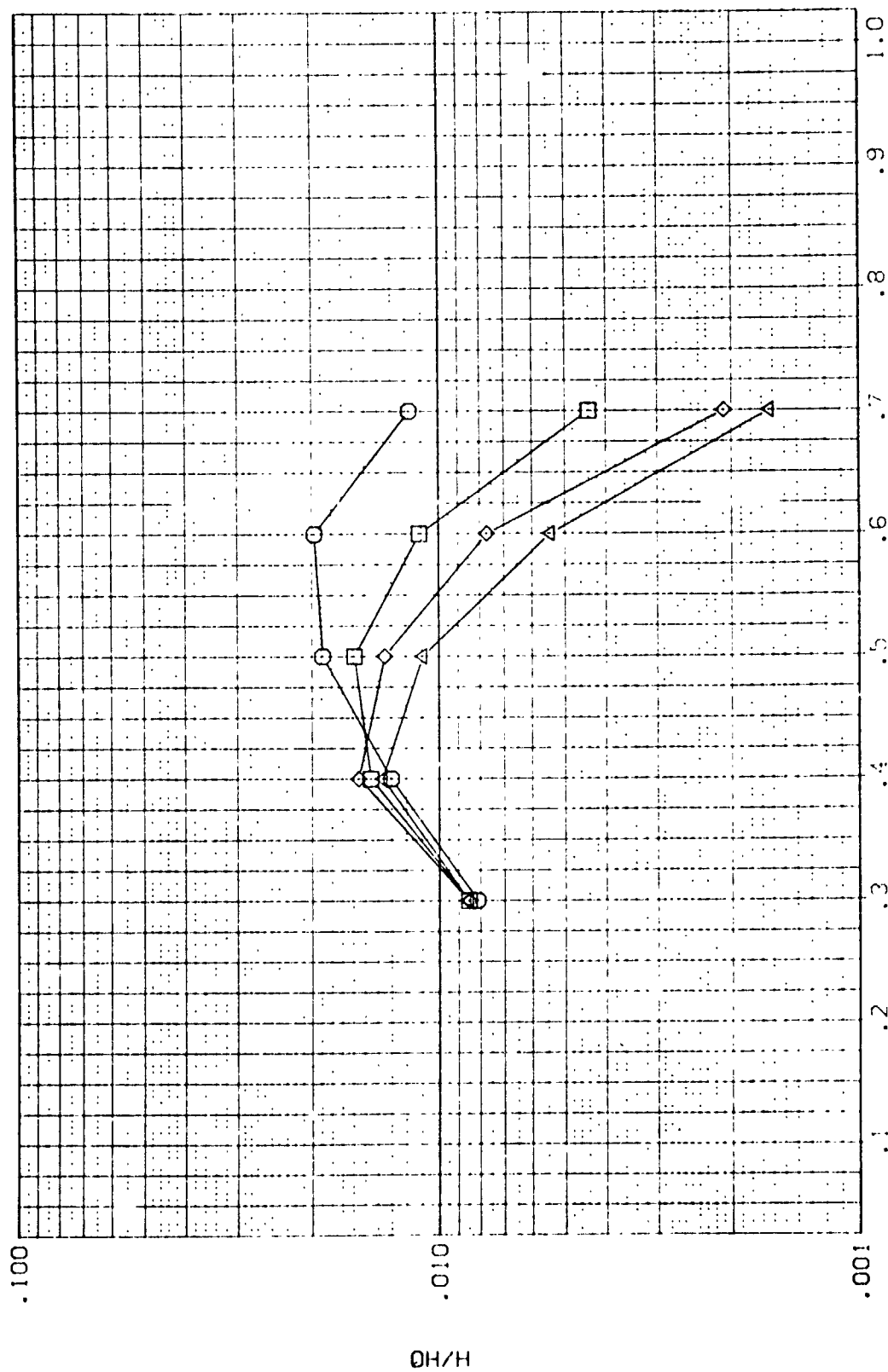


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|---|--------|------|-------|
| (POLSC2) | ○ | CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (POLSC3) | ◇ | CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (POLSC4) | △ | CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (POLSC5) | □ | CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

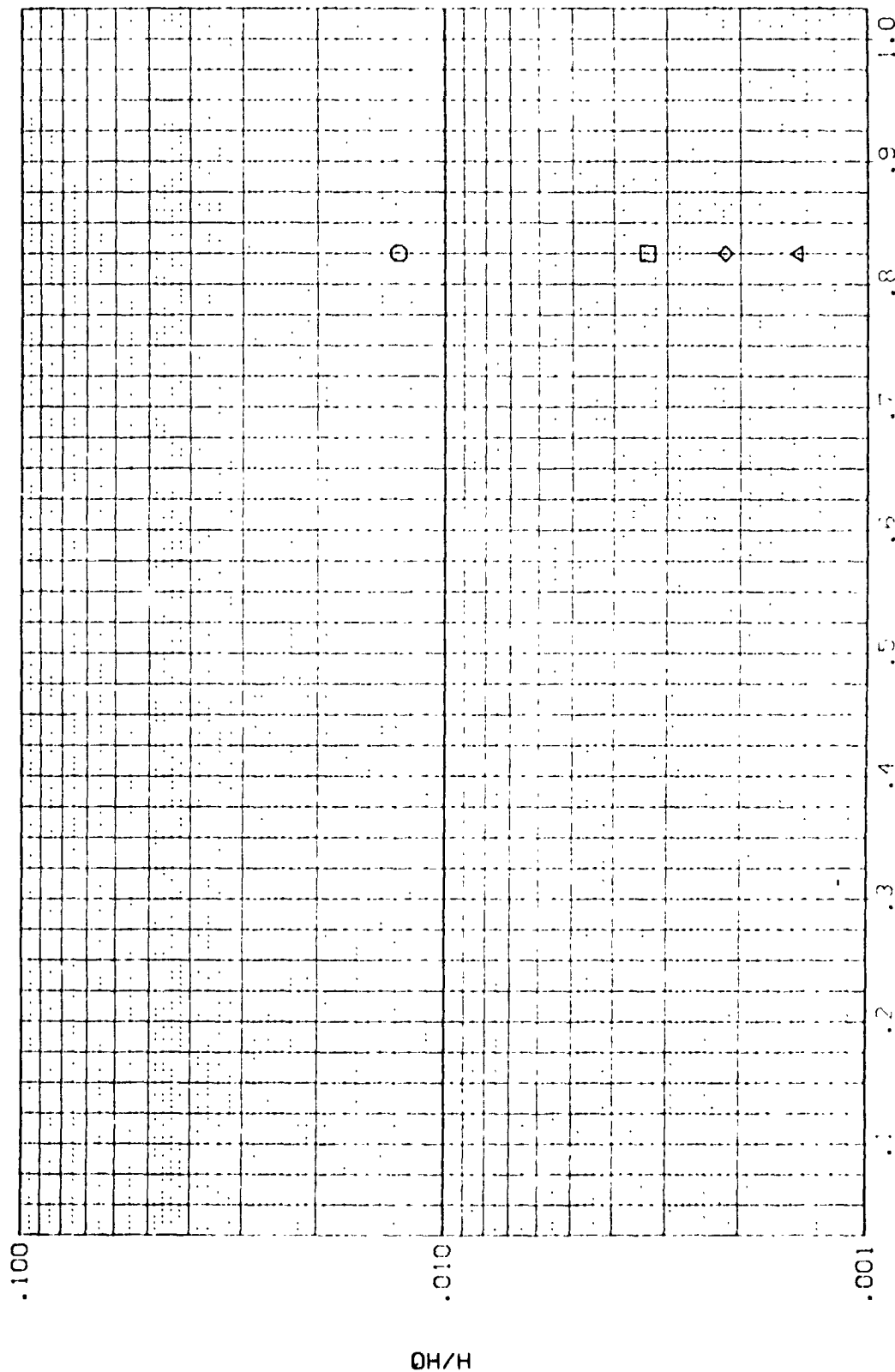


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (RQ1S02) | ○ | CH14 B22C7FS4V7W111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (RQ1S03) | △ | CH14 B22C7FS4V7W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (RQ1S04) | ◇ | CH14 B22C7FS4V7W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (RQ1S05) | □ | CH14 B22C7FS4V7W111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

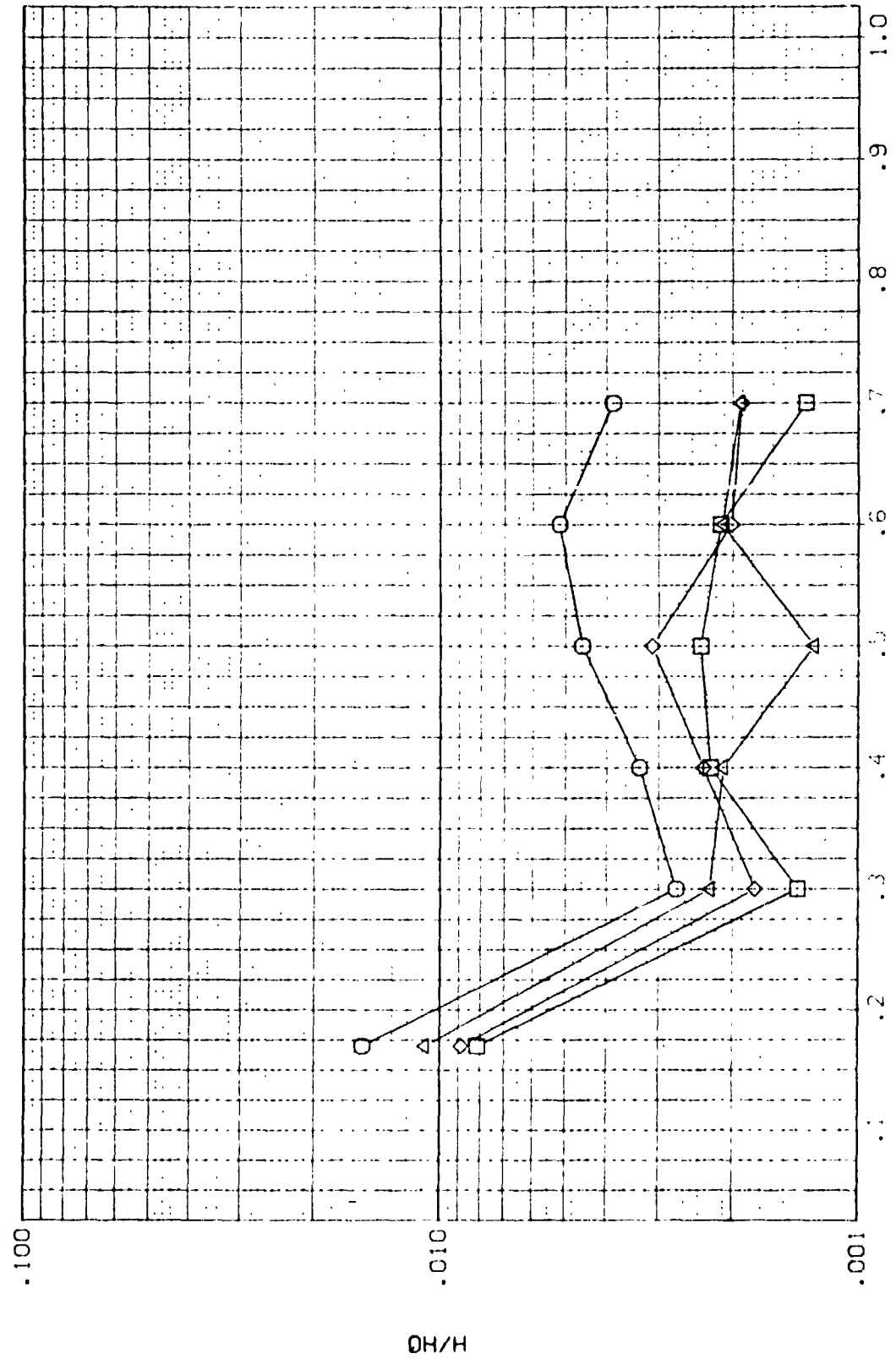


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

DATA SET SYMBOL CONFIGURATION DESCRIPTION

ALPHA BETA MACH

CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE
 CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE
 CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE
 CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

(PQ.S22)
 (PQ.S23)
 (PQ.S24)
 (PQ.S25)

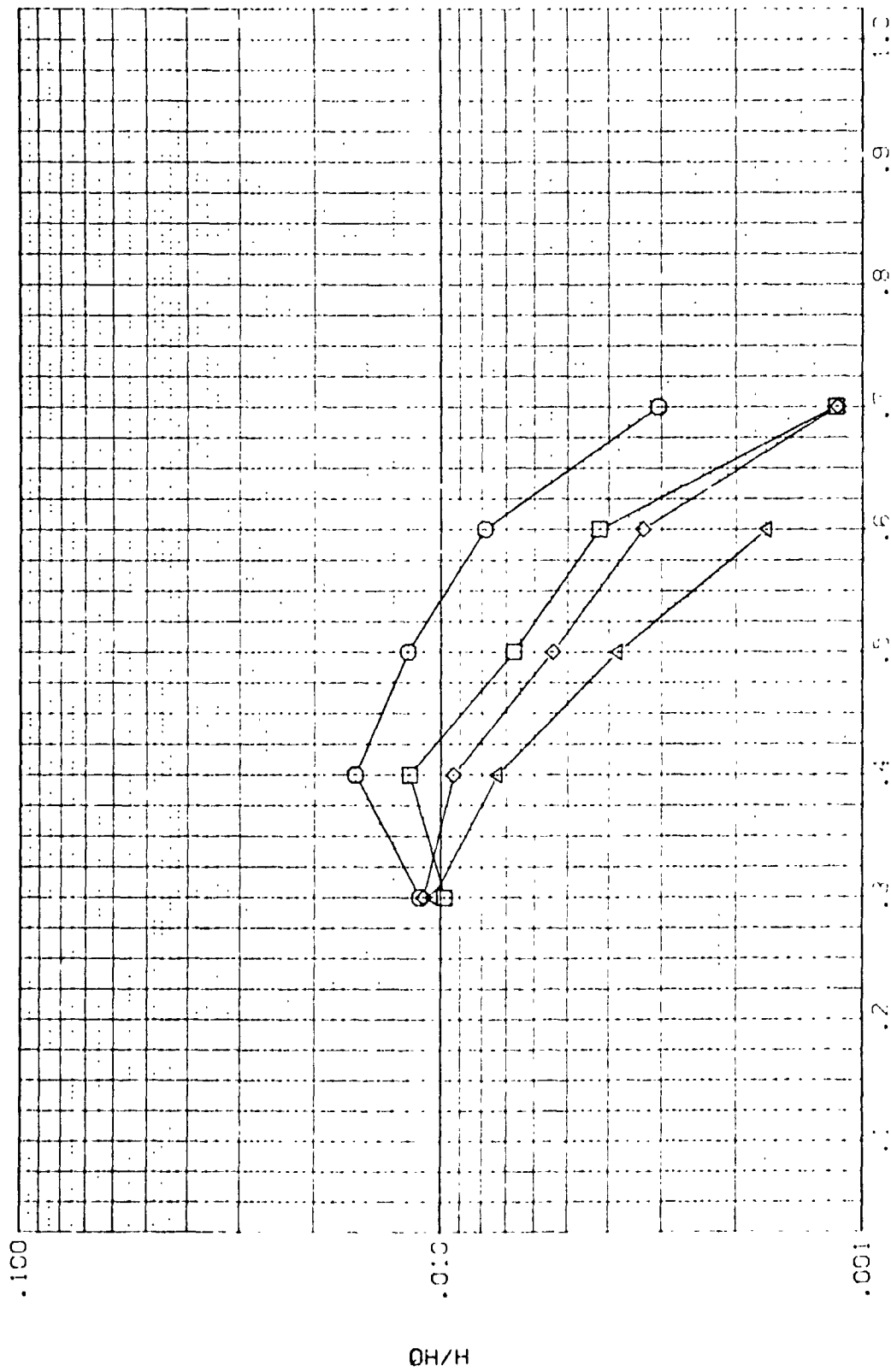


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (PCL502) | ○ | OH14 B2207FS4V7W111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (PCL503) | □ | OH14 B2207FS4V7W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (PCL504) | ◇ | OH14 B2207FS4V7W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (PCL505) | △ | OH14 B2207FS4V7W111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

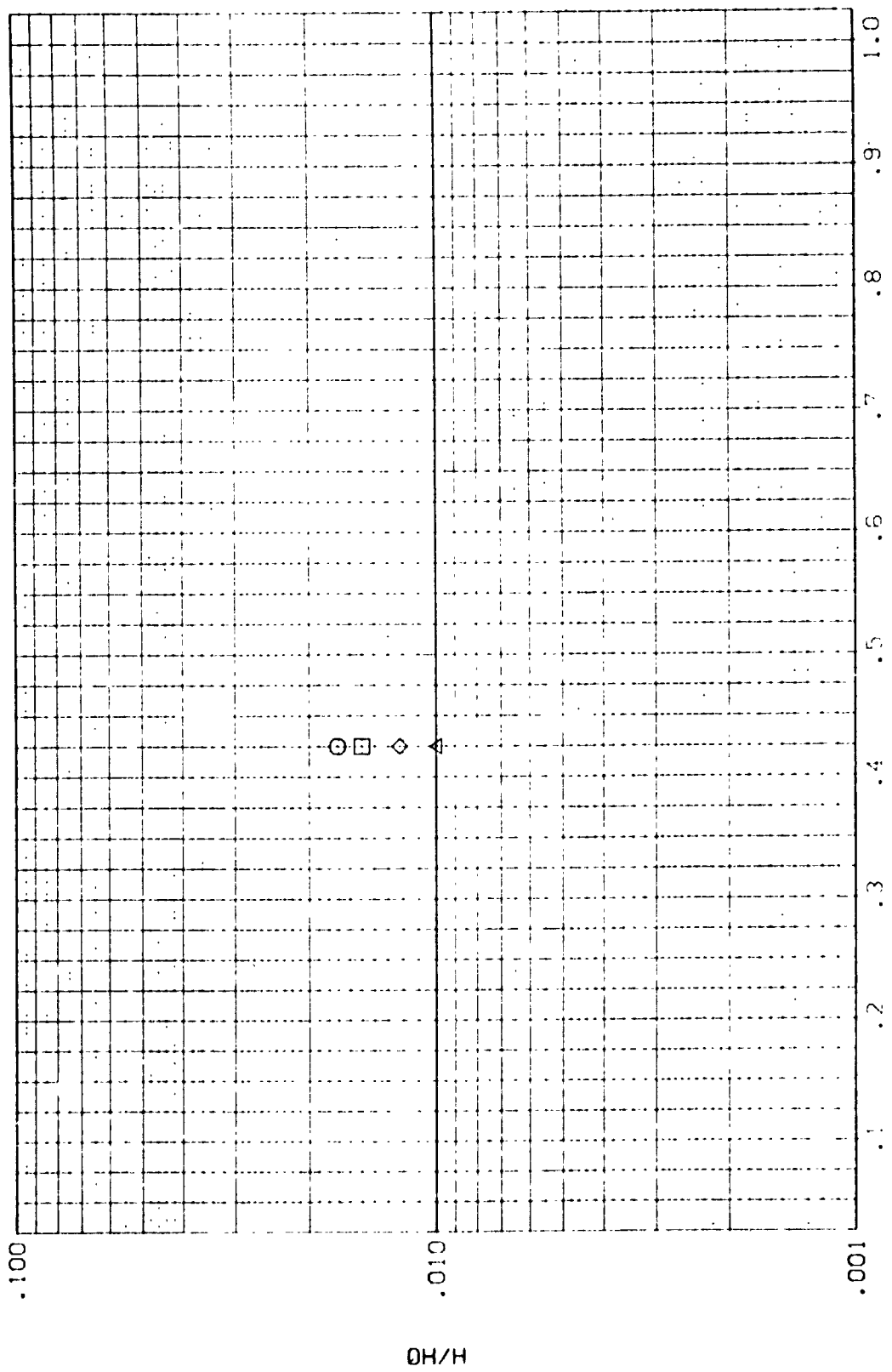


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

DATA SET SYMBOL

CONFIGURATION DESCRIPTION

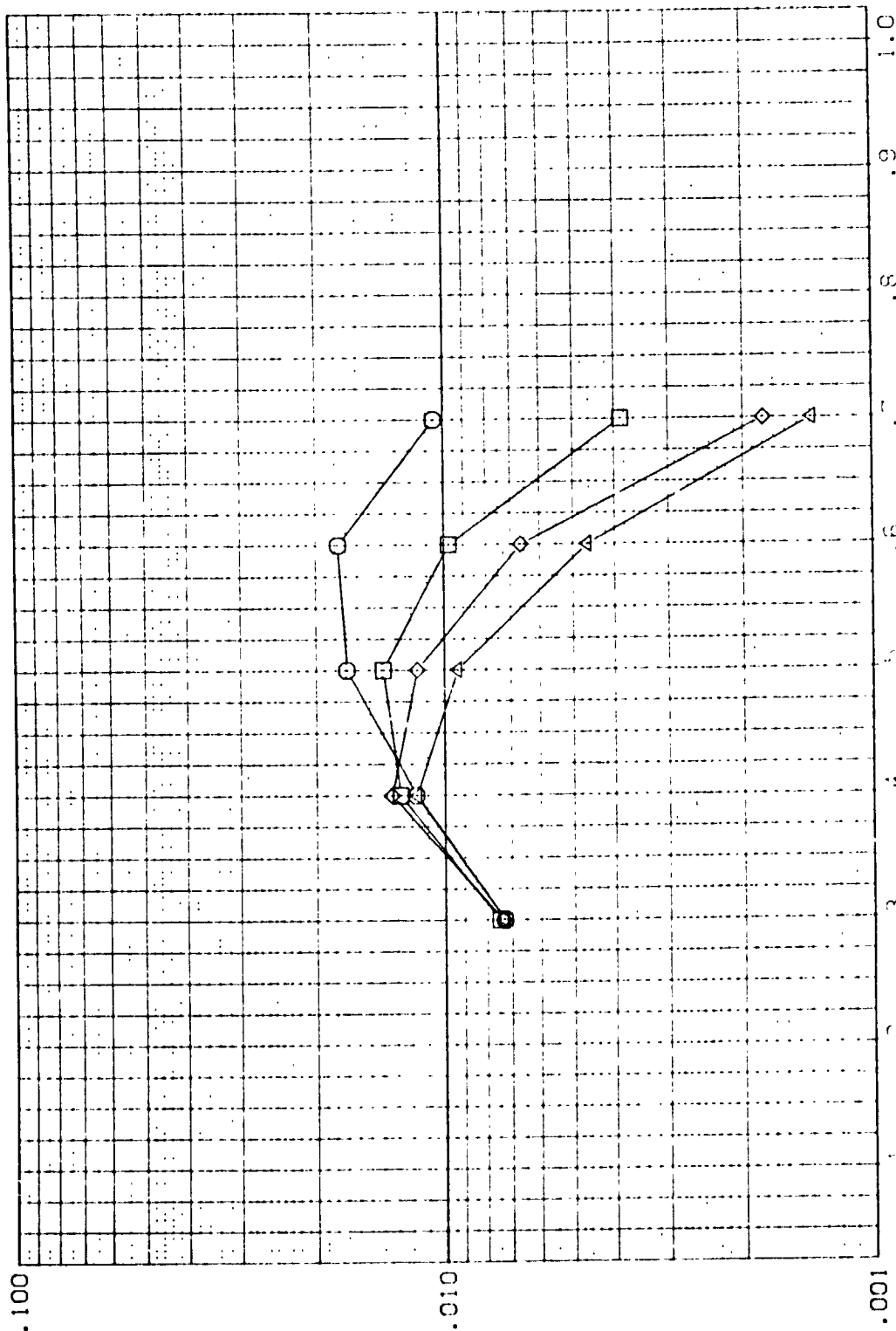
ALPHA BETA MACH

OH14 B22C7F54.7W111 FUSELAGE UPPER SURFACE
OH14 B22C7F54.7W111 FUSELAGE UPPER SURFACE
OH14 B22C7F54.7W111 FUSELAGE UPPER SURFACE
OH14 B22C7F54.7W111 FUSELAGE UPPER SURFACE

20.000
25.000
30.000
35.000

.000
.000
.000
.000

8.000
8.000
8.000
8.000



LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

FIG 18

PN/L = 1.000 W.F. = 0.05.000

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|---|--------|------|-------|
| (P1-S02) | ○ | CH14 B22C7FS4V7W1111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (P2-S03) | □ | CH14 B22C7FS4V7W1111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (P3-S04) | × | CH14 B22C7FS4V7W1111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (P4-S05) | △ | CH14 B22C7FS4V7W1111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

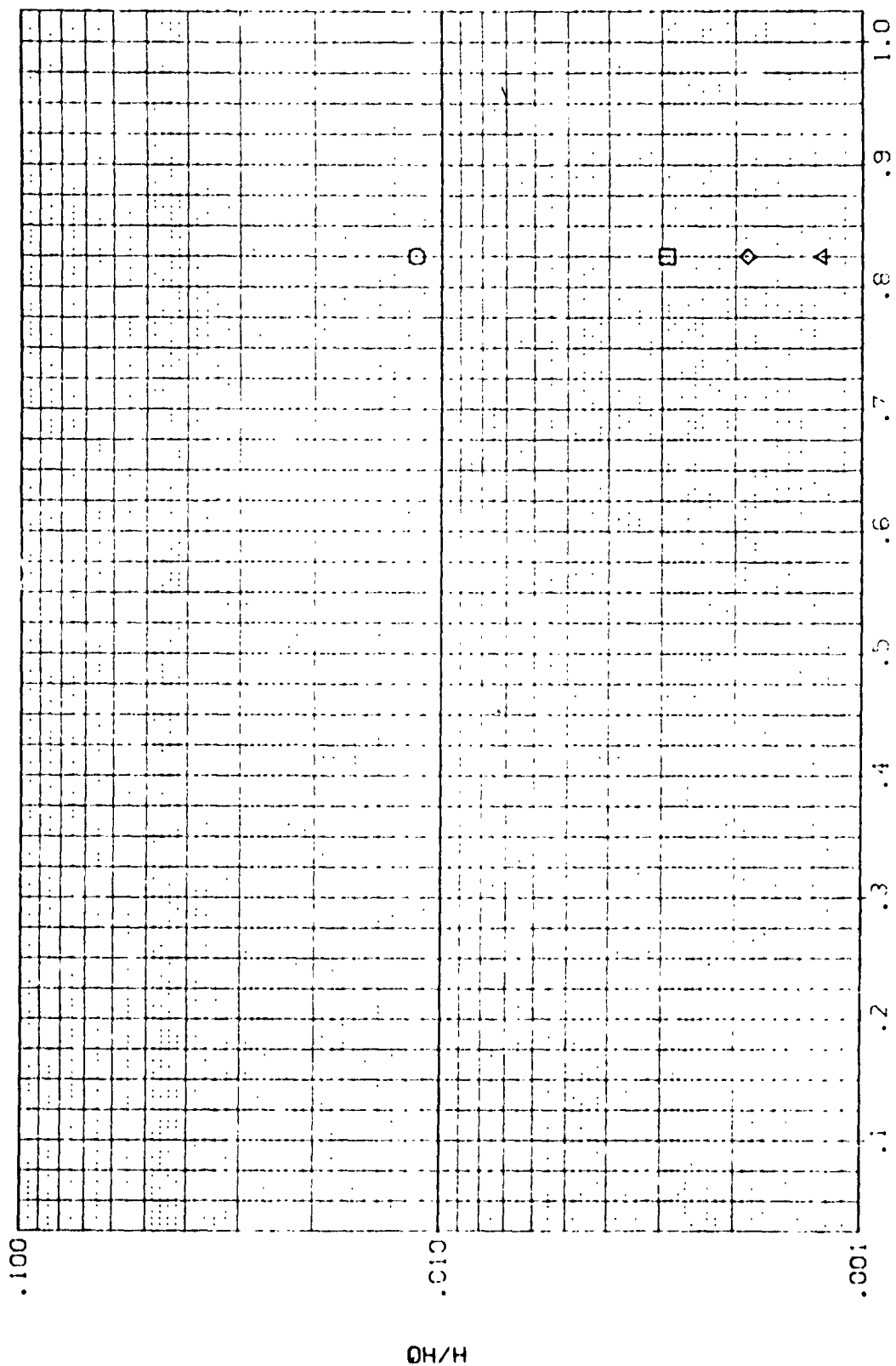


FIG 18 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (PQLS02) | ○ | CH-14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (PQLS03) | △ | CH-14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (PQLS04) | ◇ | CH-14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (PQLS05) | □ | CH-14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

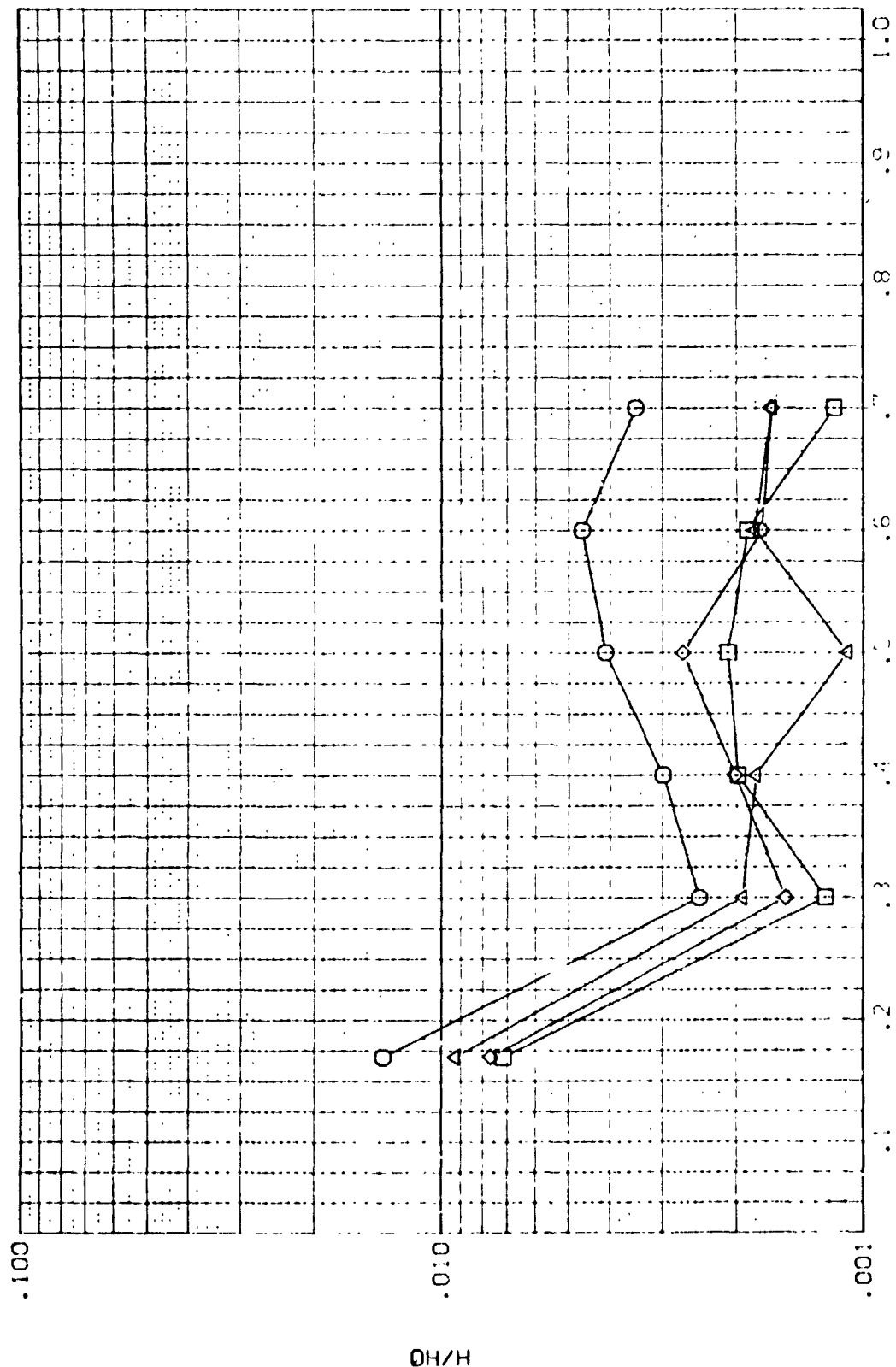


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|---|--------|------|-------|
| (RQ-SC3) | ○ | CH-14 B22C7FSM47W111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (RQ-SC3) | □ | CH-14 B22C7FSM47W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (RQ-SC4) | ◇ | CH-14 B22C7FSM47W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (RQ-SC5) | △ | CH-14 B22C7FSM47W111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

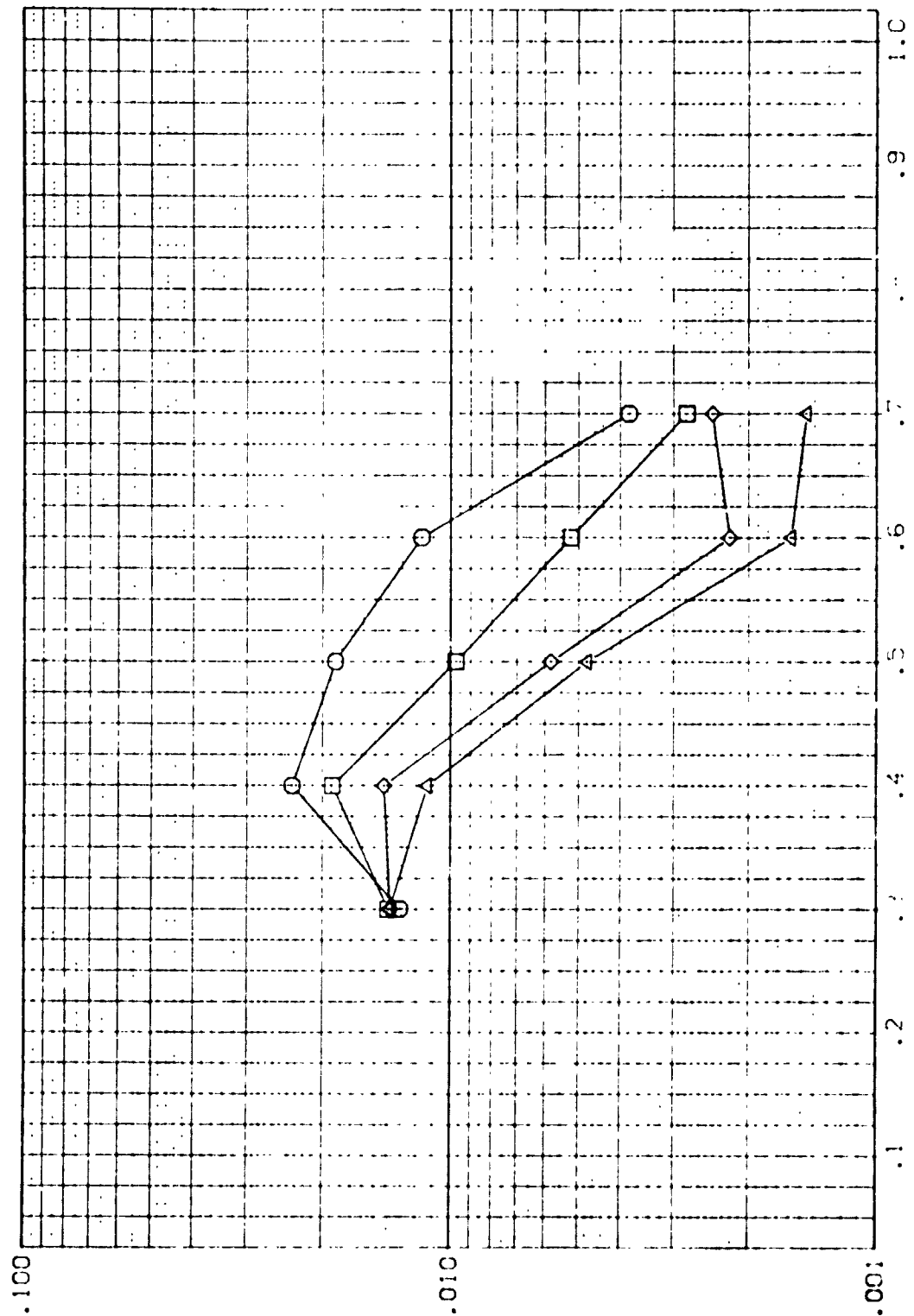


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (POLSC2) | | CM14 B22C7F5M4V7W1111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (POLSC3) | | CM14 B22C7F5M4V7W1111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (POLSC4) | | CM14 B22C7F5M4V7W1111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (POLSC5) | | CM14 B22C7F5M4V7W1111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

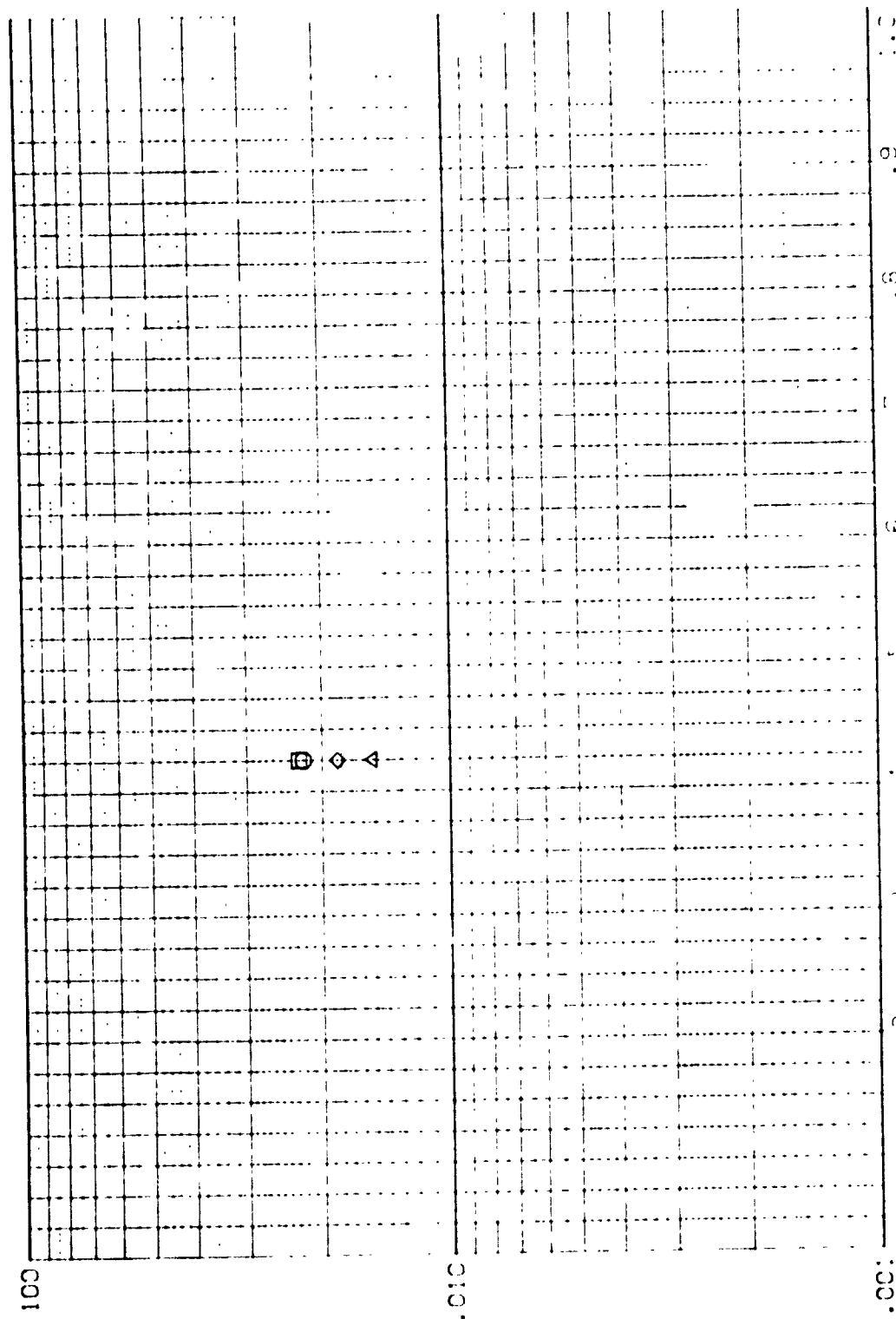


FIG 18 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 3.000 HAW/H = .850 A.P. = 400.000 PAGE 244

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|-----------------|--|--------|------|-------|
| 001 | B2207FS4V7*1111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| 002 | B2207FS4V7*1111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| 003 | B2207FS4V7*1111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| 004 | B2207FS4V7*1111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

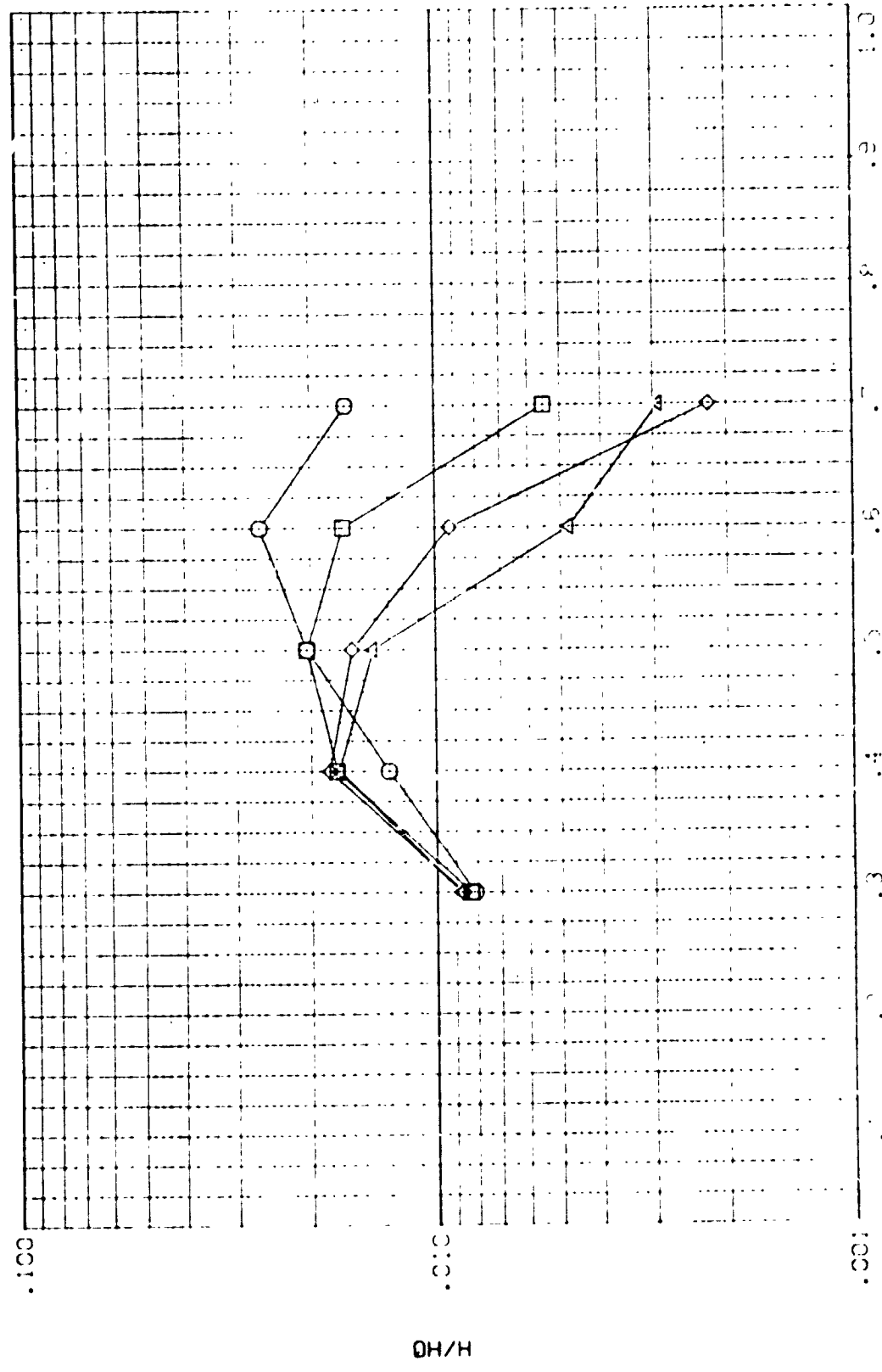


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|---|--------|------|-------|
| (RQ1502) | □ | OH14 12207FSM4V7W111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (RQ1503) | □ | OH14 92407FSM4V7W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (RQ1504) | △ | OH14 82207FSM4V7W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (RQ1505) | ◇ | OH14 92207FSM4V7W111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

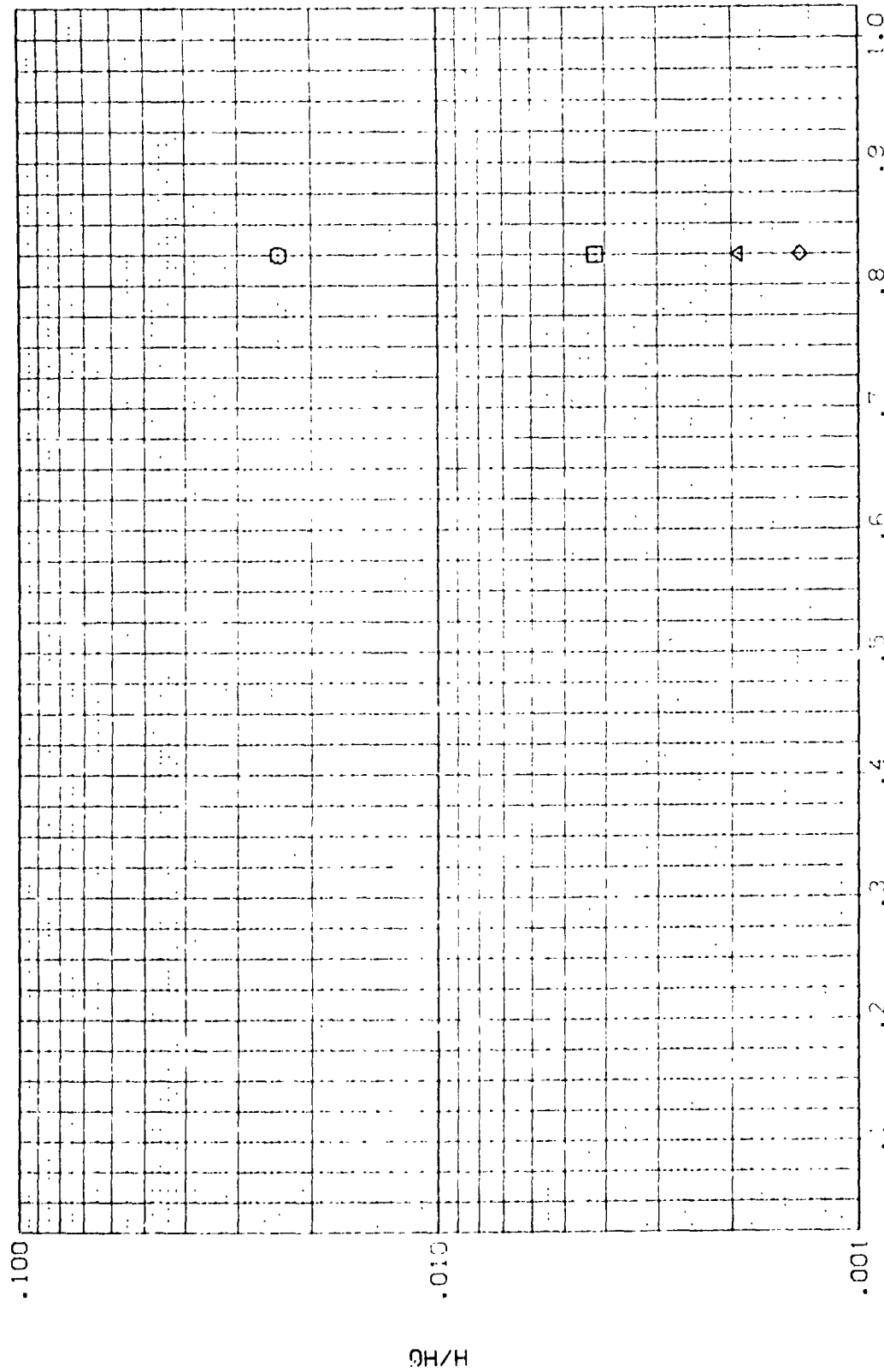


FIG 18 LONGITUDINAL FUSELAGE STATION X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (PQ-SC2) | ○ | CH14 B22C7FSM47W111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (PQ-SC3) | □ | CH14 B22C7FSM47W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (PQ-SC4) | △ | CH14 B22C7FSM47W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (PQ-SC5) | ◇ | CH14 B22C7FSM47W111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

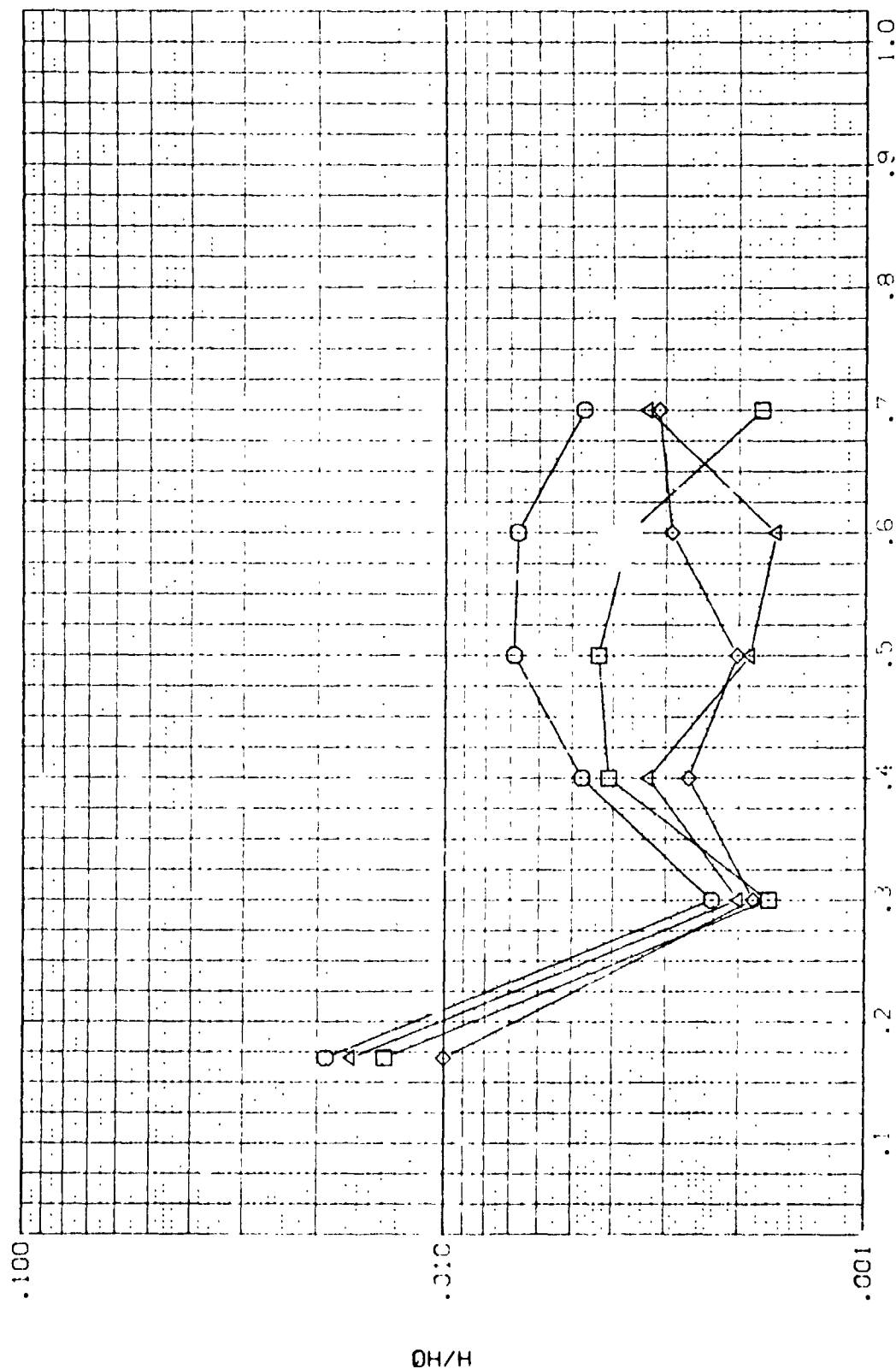


FIG 18 LONGITUDINAL FUSELAGE STATION. X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

Reynolds Number = 3.000 Prandtl Number = 0.850 Mach Number = 8.000

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | ACH |
|----------|--------|---|--------|------|-------|
| (R0LS02) | | CH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (R0LS03) | | CH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (R0LS04) | | CH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (R0LS05) | | CH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

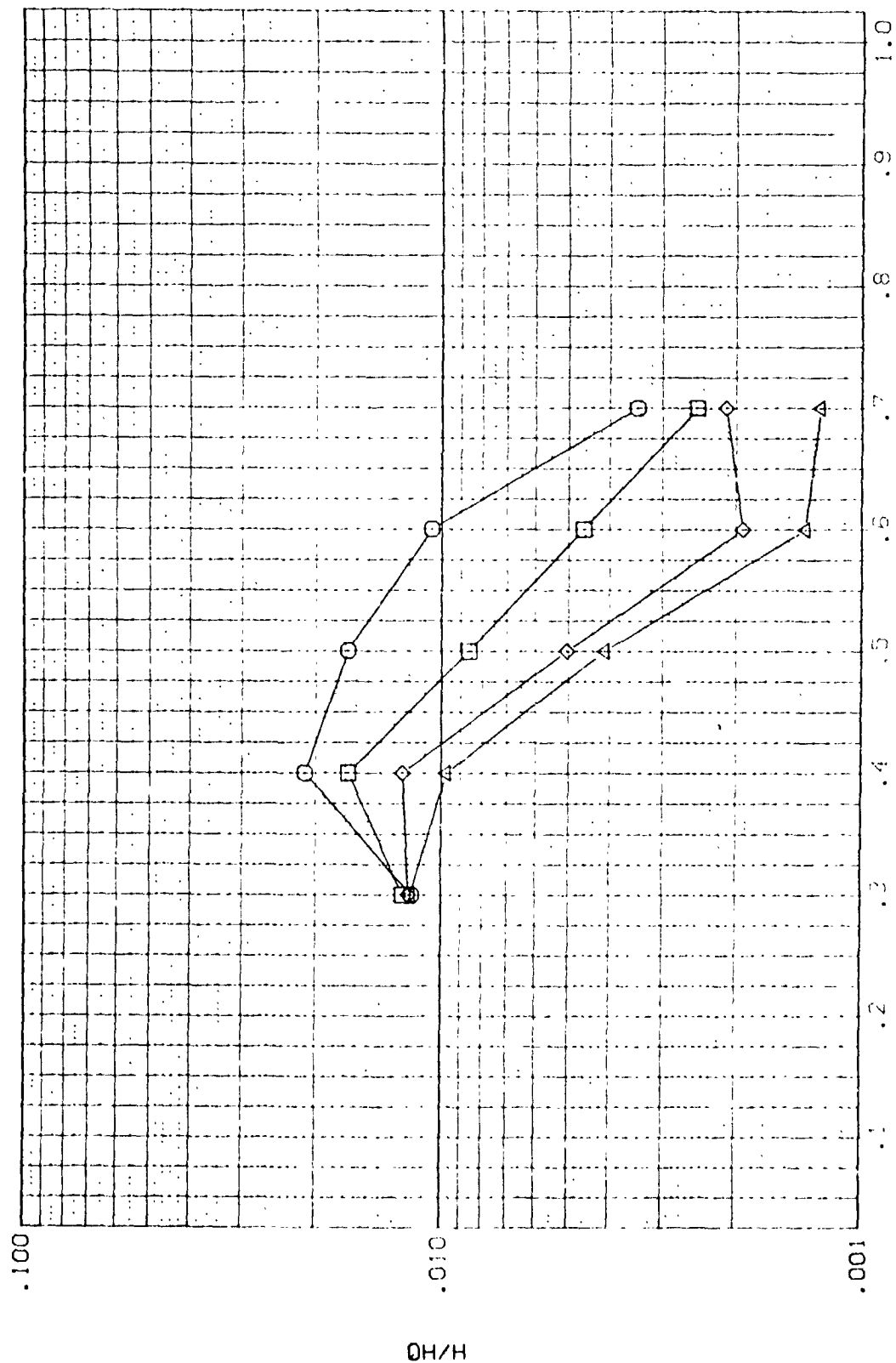


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 3.000 HAW/H = .900 W.P. = 0.15.000

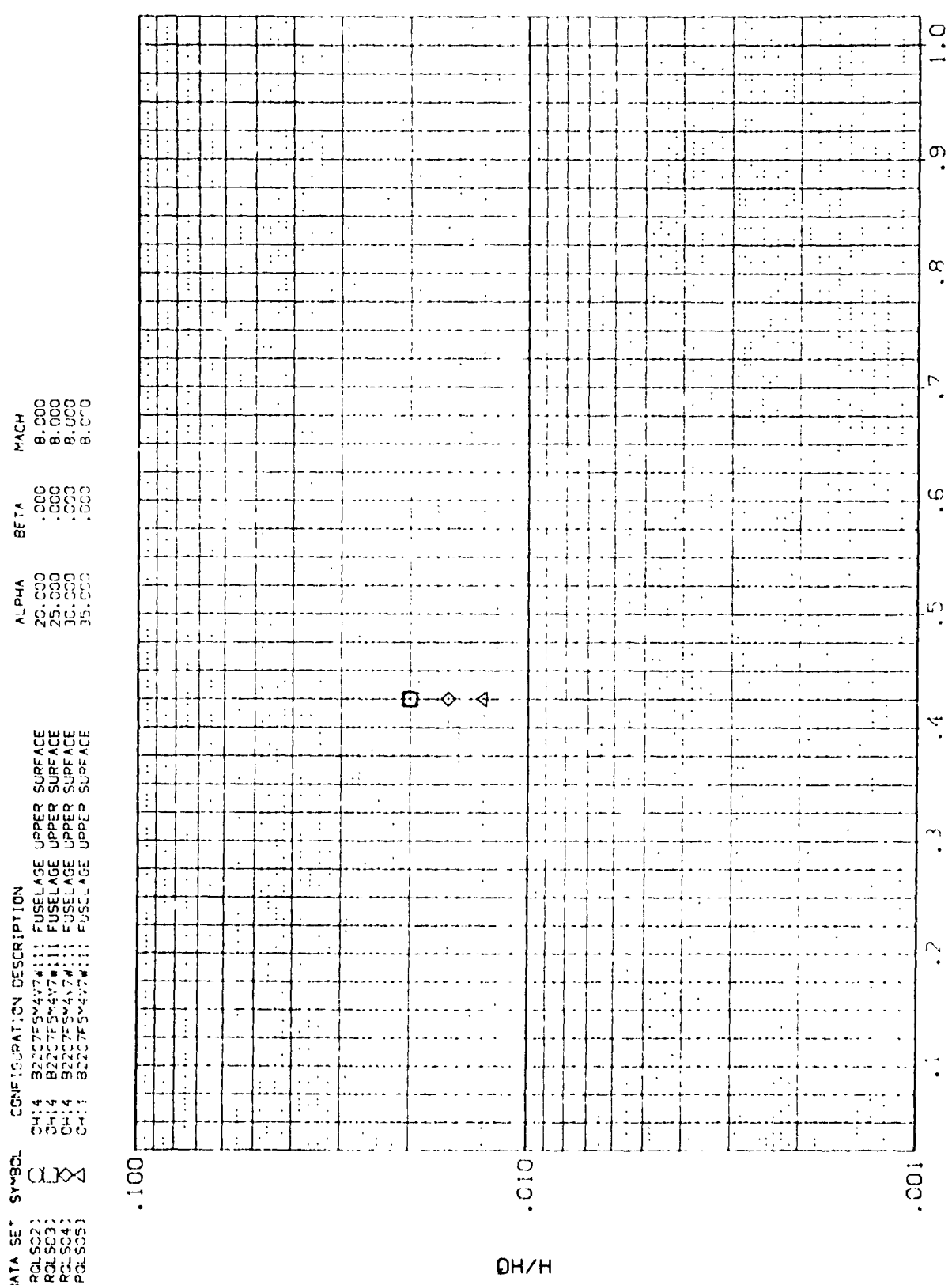


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (POLS02) | X | CH14 B22C7F5M4V7W1111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (POLS03) | | CH14 B22C7F5M4V7W1111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (POLS04) | | CH14 B22C7F5M4V7W1111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (POLS05) | | CH14 B22C7F5M4V7W1111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |
| | | CH14 B22C7F5M4V7W1111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

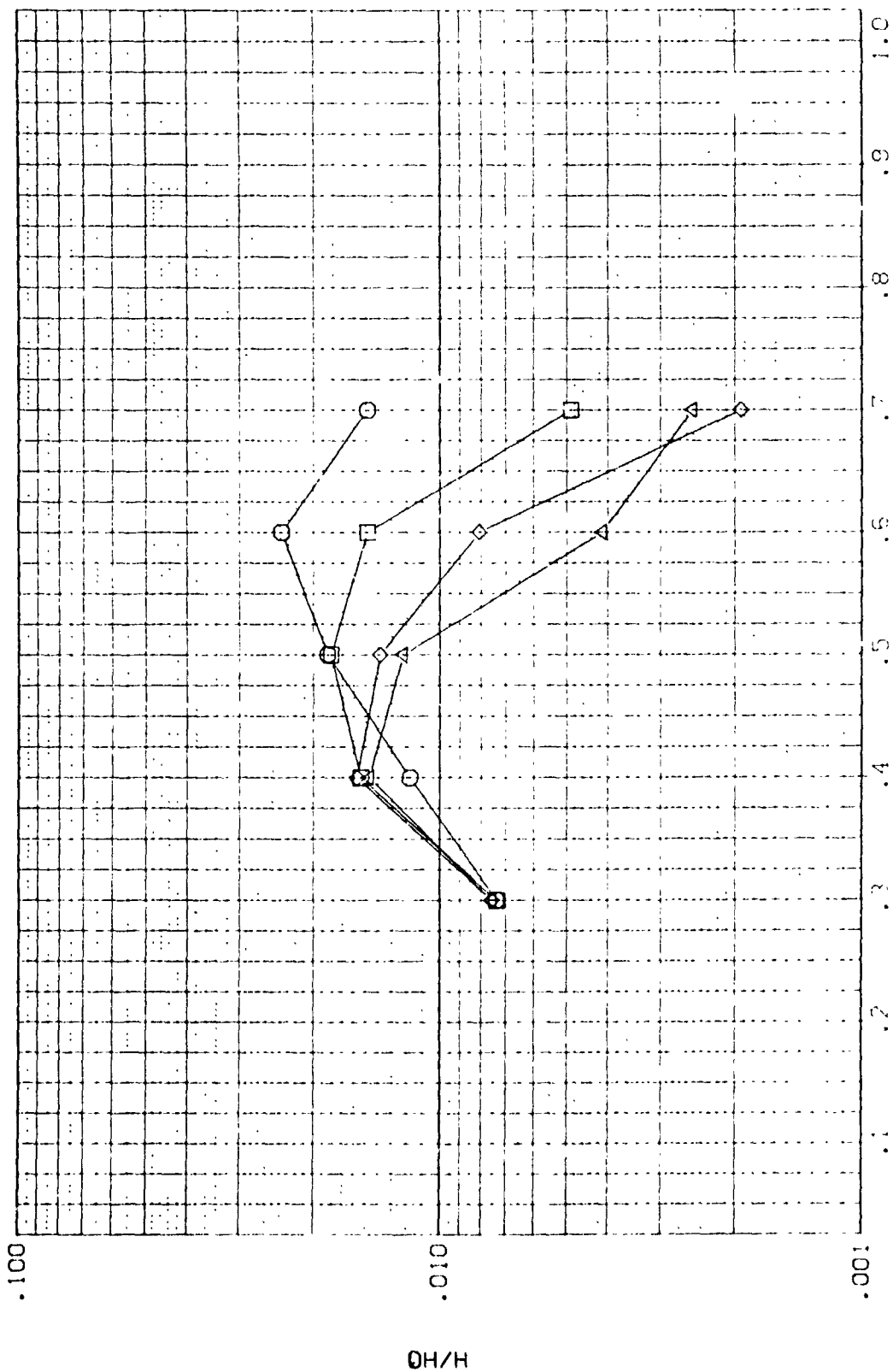


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(PCL-502) CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE
 (PCL-503) CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE
 (PCL-504) CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE
 (PCL-505) CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

ALPHA BETA MACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000

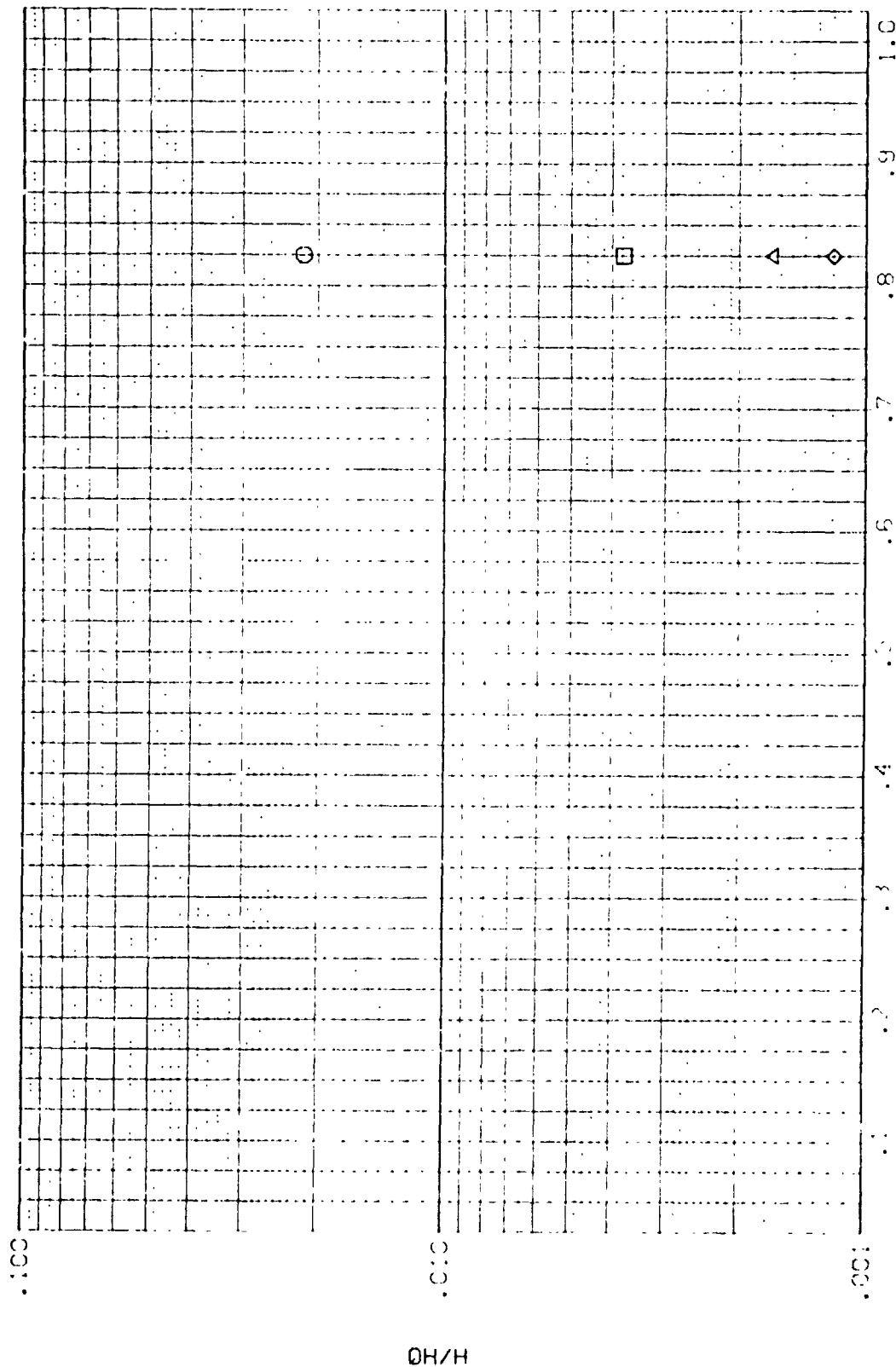


FIG 18 LONGITUDINAL FUSELAGE STATION. X/L, FRACTION OF BODY LENGTH
 VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 3.000 HAW/H = .900 W.P. 465.000

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (POL502) | ○ | CH-14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (POL503) | △ | CH-14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (POL504) | □ | CH-14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (POL505) | ◇ | CH-14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

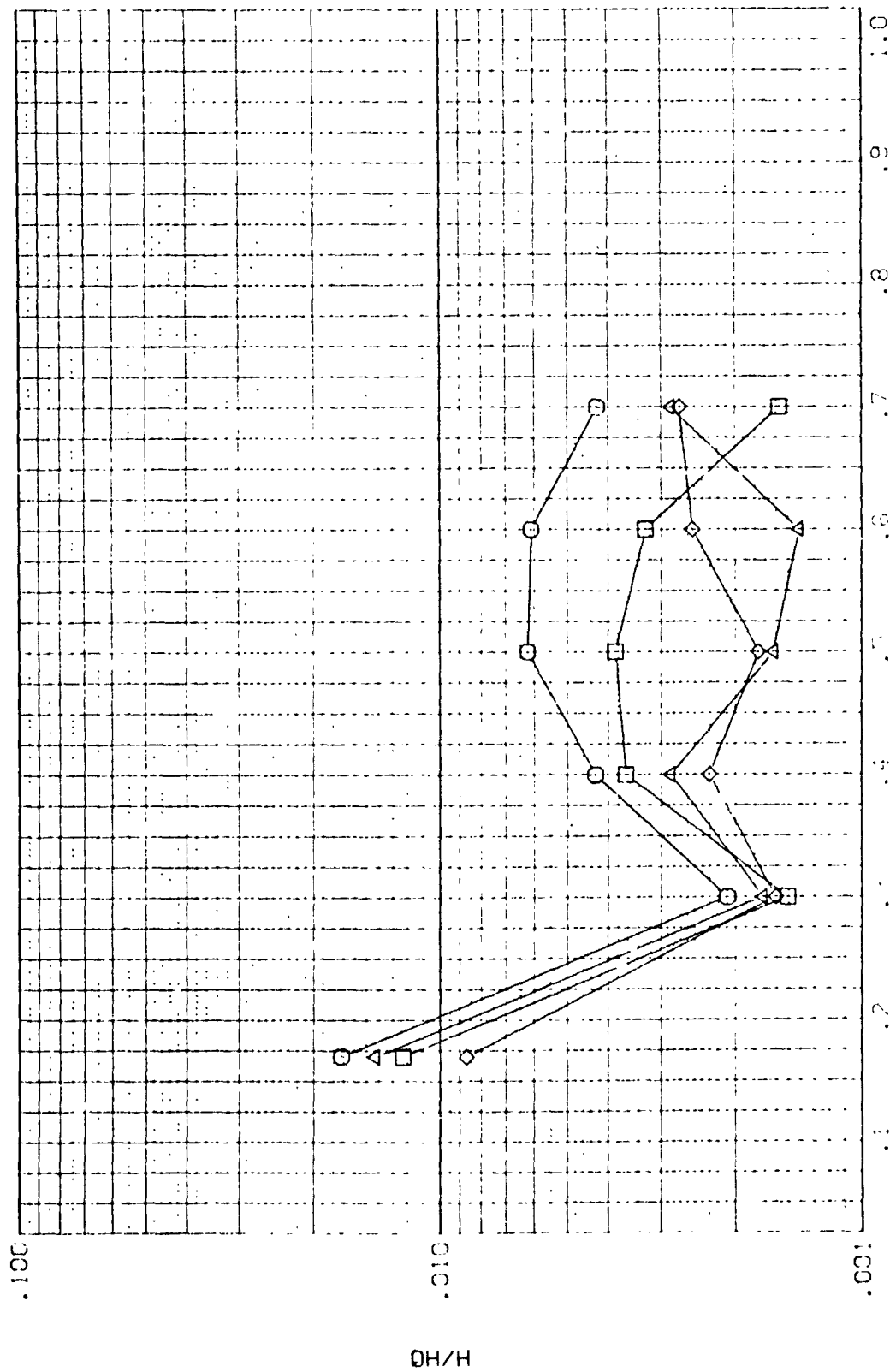


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

DATA SET SYMBOL CONFIGURATION DESCRIPTION

CG-10000 DATA NOT AVAILABLE

CG-10000 B220754774111 FUSELAGE UPPER SURFACE

CG-10000 B220754774111 FUSELAGE UPPER SURFACE

CG-10000 B220754774111 FUSELAGE UPPER SURFACE

ALPHA BETA MACH
20.000 .000 8.000
25.000 .000 9.000
30.000 .000 3.000
35.000 .000 3.000

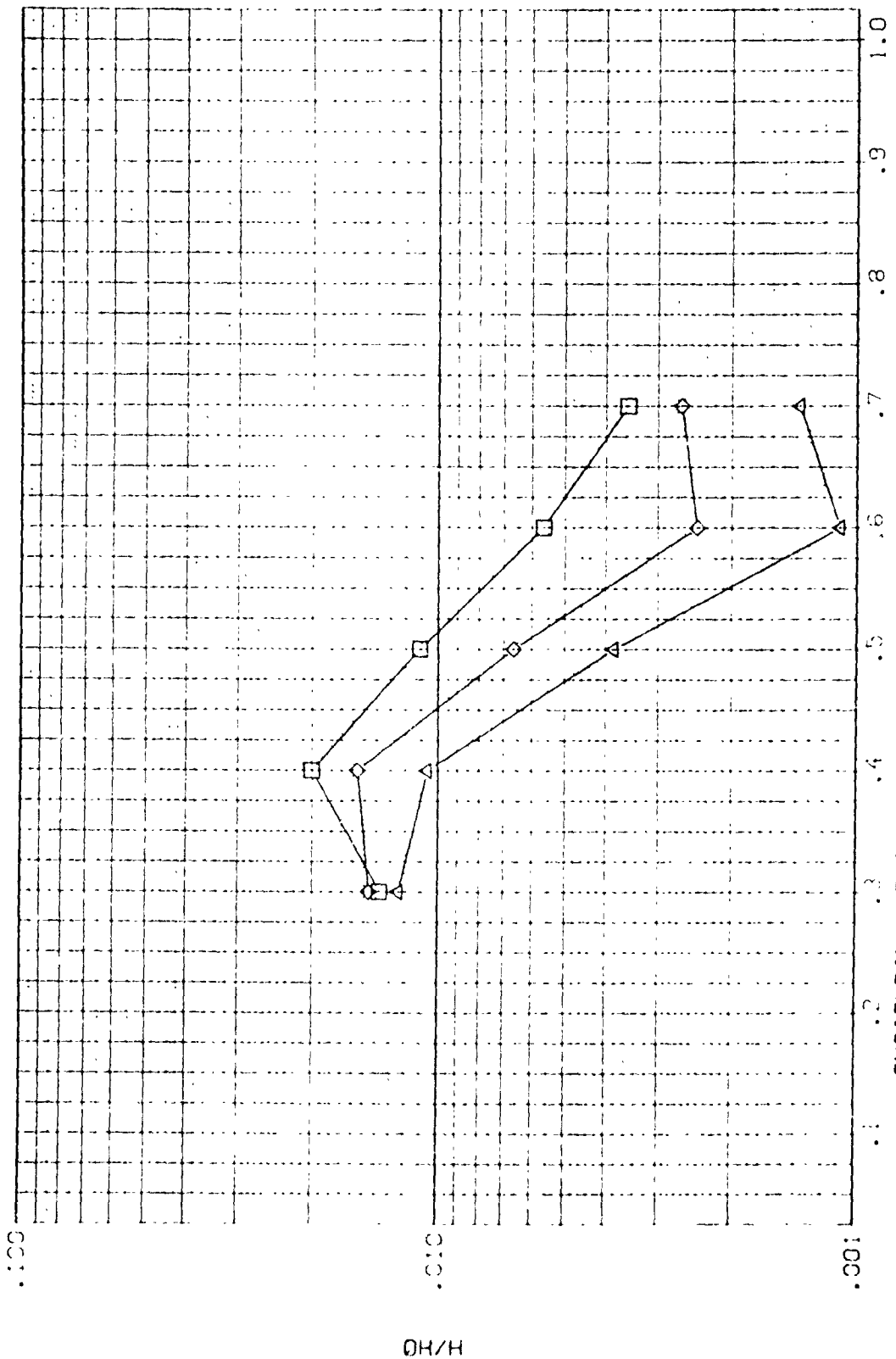


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

DATA SET SYMBOL CONFIGURATION DESCRIPTION ALPHA BETA MACH

(RQLS02) DATA SET AVAILABLE 25.000 .000 8.000

(RQLS03) CH14 B22CF5M4V7W111 FUSELAGE UPPER SURFACE 25.000 .000 8.000

(RQLS04) CH14 B22CF5M4V7W111 FUSELAGE UPPER SURFACE 30.000 .000 8.000

(RQLS05) CH14 B22CF5M4V7W111 FUSELAGE UPPER SURFACE 35.000 .000 8.000

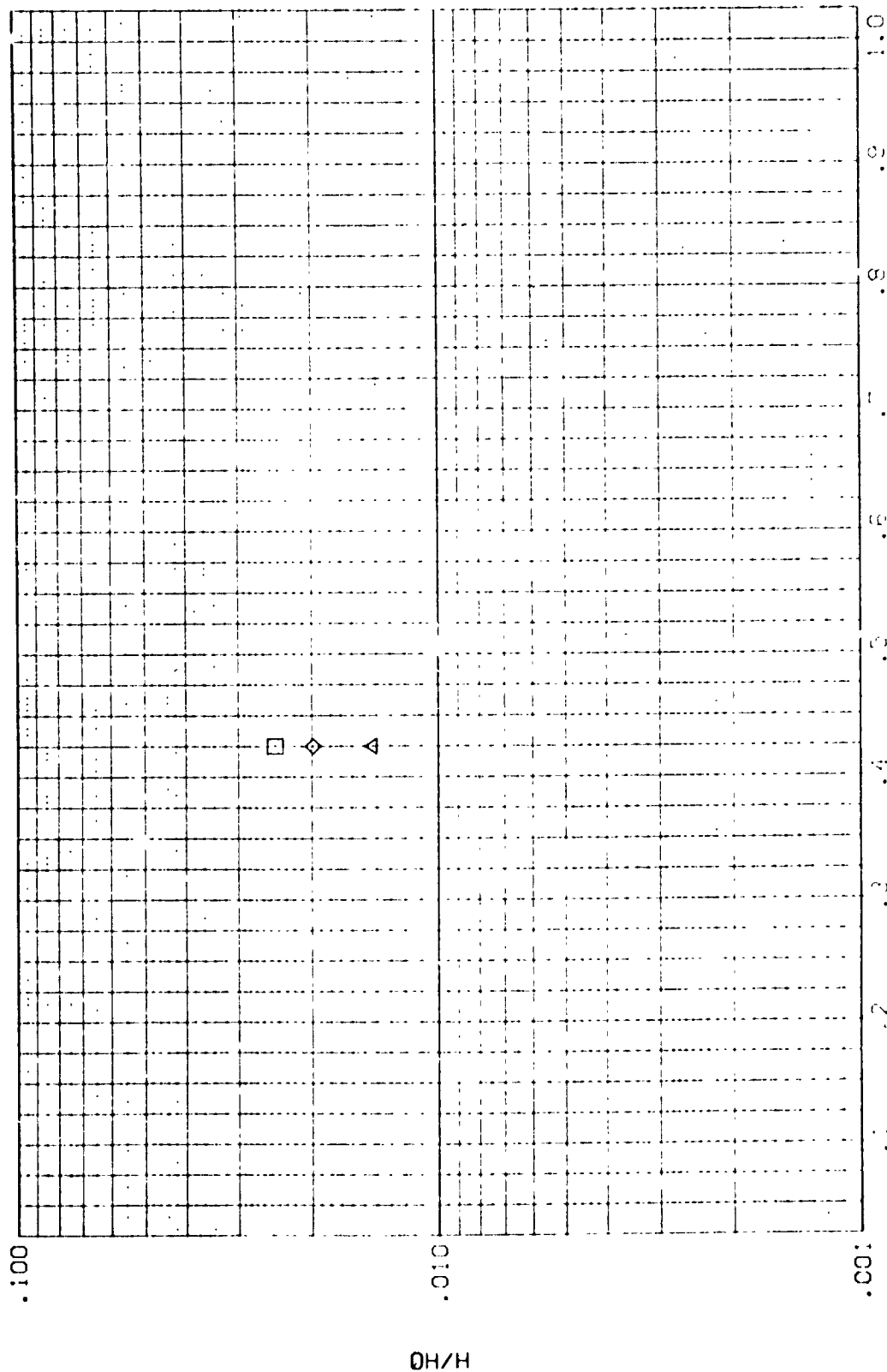
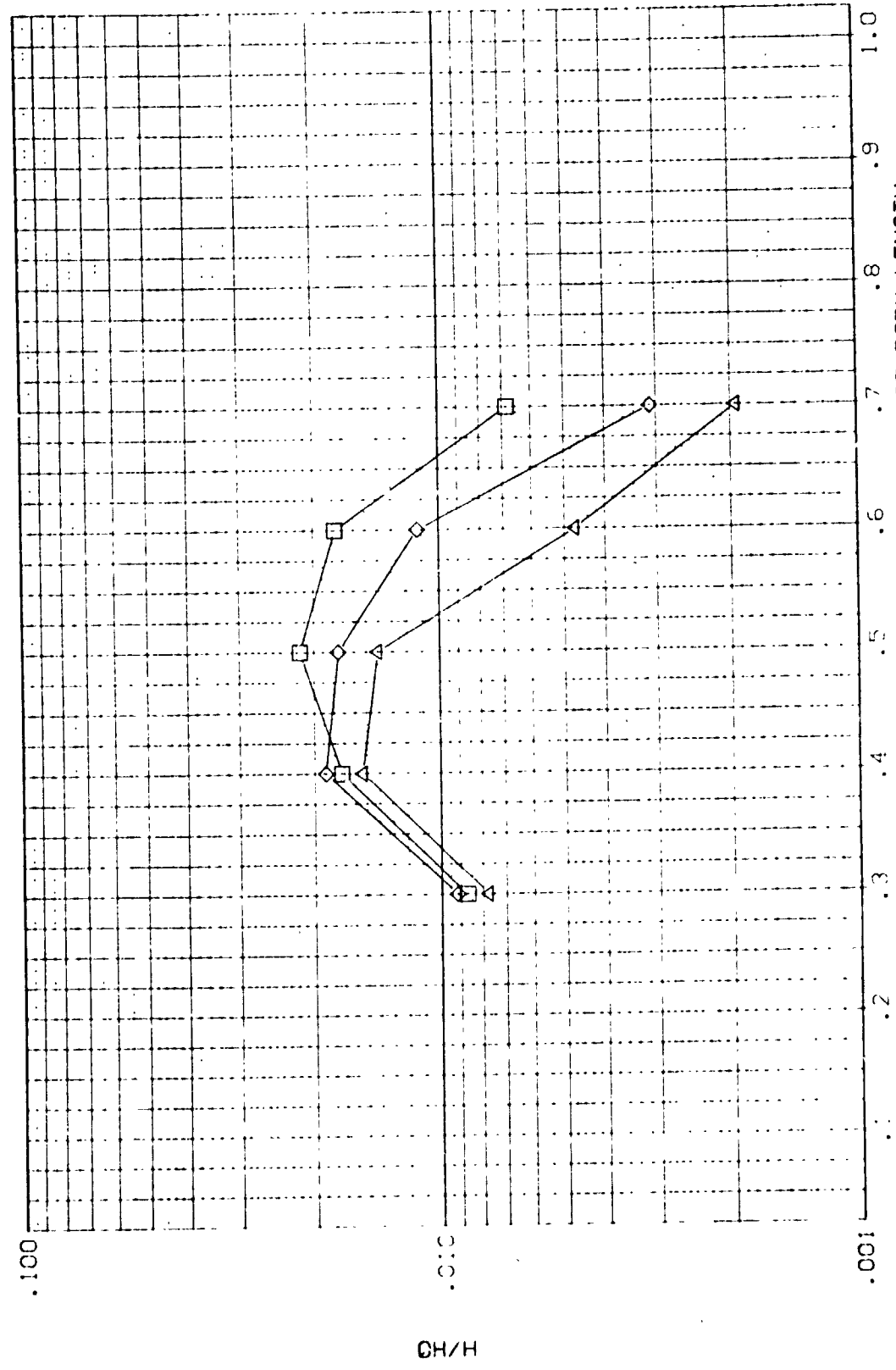


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 4.000 MAW/HT = .850 W.P. = 400.000 PAGE 254

| | | | | | |
|----------|-------|---|--------|------|-------|
| DATA SET | SVBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
| (P2-502) | Q | DATA NOT AVAILABLE | 20.000 | .000 | 8.000 |
| (P2-503) | X | CH14 B22C7F5W4V7M111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (P2-504) | | CH14 B22C7F5W4V7M111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (P2-505) | | CH14 B22C7F5W4V7M111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |



LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH

FIG 18 VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

R1/L = 4.000 W4V7M111 .850 .000 .000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RQLS02)  DATA NOT AVAILABLE
(RQLS03)  OH14 B22C7F5M4V7#111 FUSELAGE UPPER SURFACE
(RQLS04)  OH14 B22C7F5M4V7#111 FUSELAGE UPPER SURFACE
(RQLS05)  OH14 B22C7F5M4V7#111 FUSELAGE UPPER SURFACE

ALPHA BETA MACH
20.000 .000 8.000
25.000 .000 8.000
30.000 .000 8.000
35.000 .000 8.000

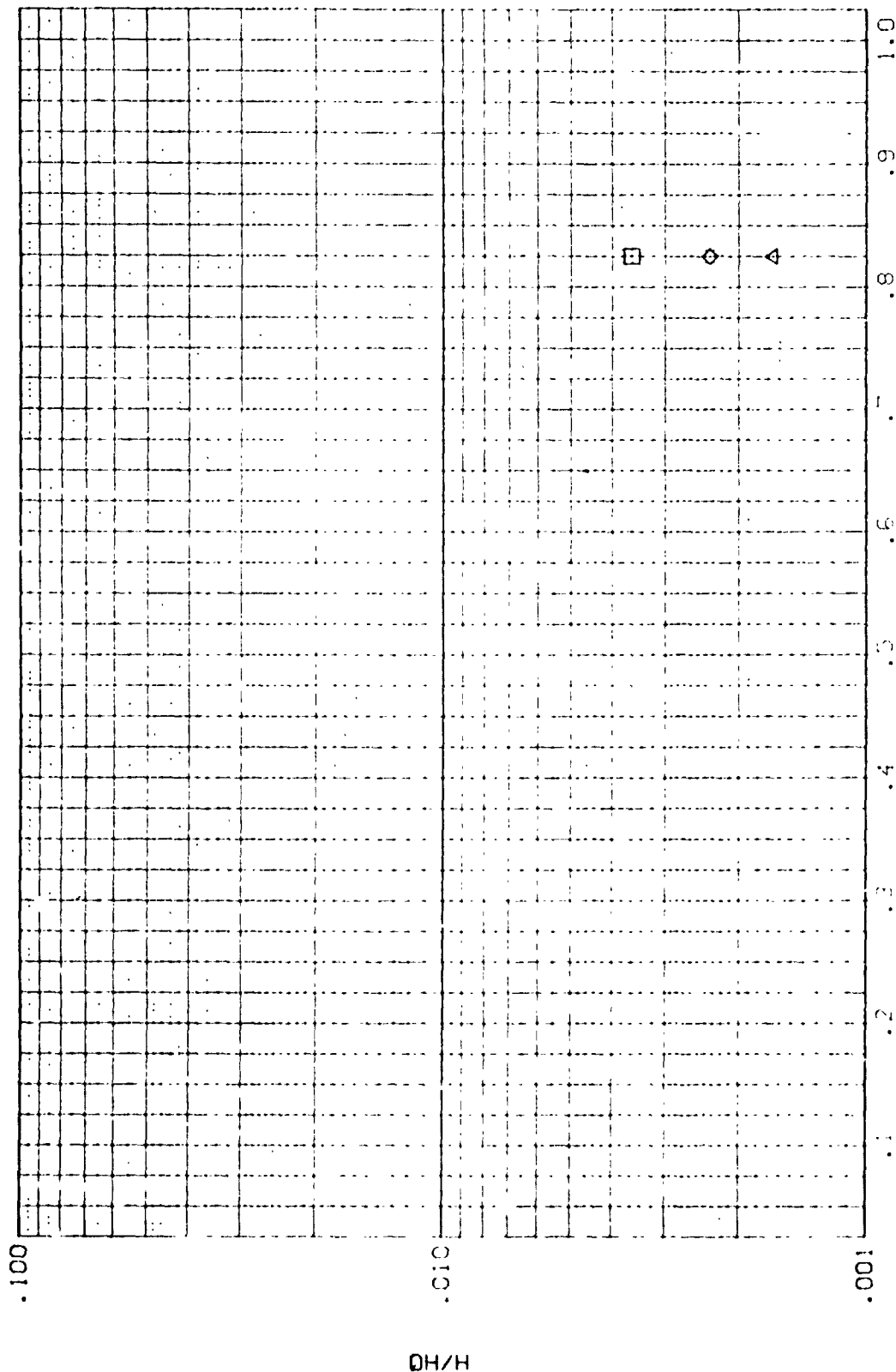


FIG 18 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 4.000 MACH = 0.950 M.P. = 405.000

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|---------------------------|--------|------|-------|
| (POLSC2) | | DATA NOT AVAILABLE | 20.000 | .000 | 8.000 |
| (POLSC3) | | DATA NOT AVAILABLE | 25.000 | .000 | 8.000 |
| (POLSC4) | | DATA NOT AVAILABLE | 30.000 | .000 | 8.000 |
| (POLSC5) | | DATA NOT AVAILABLE | 35.000 | .000 | 8.000 |
| | | | | | |

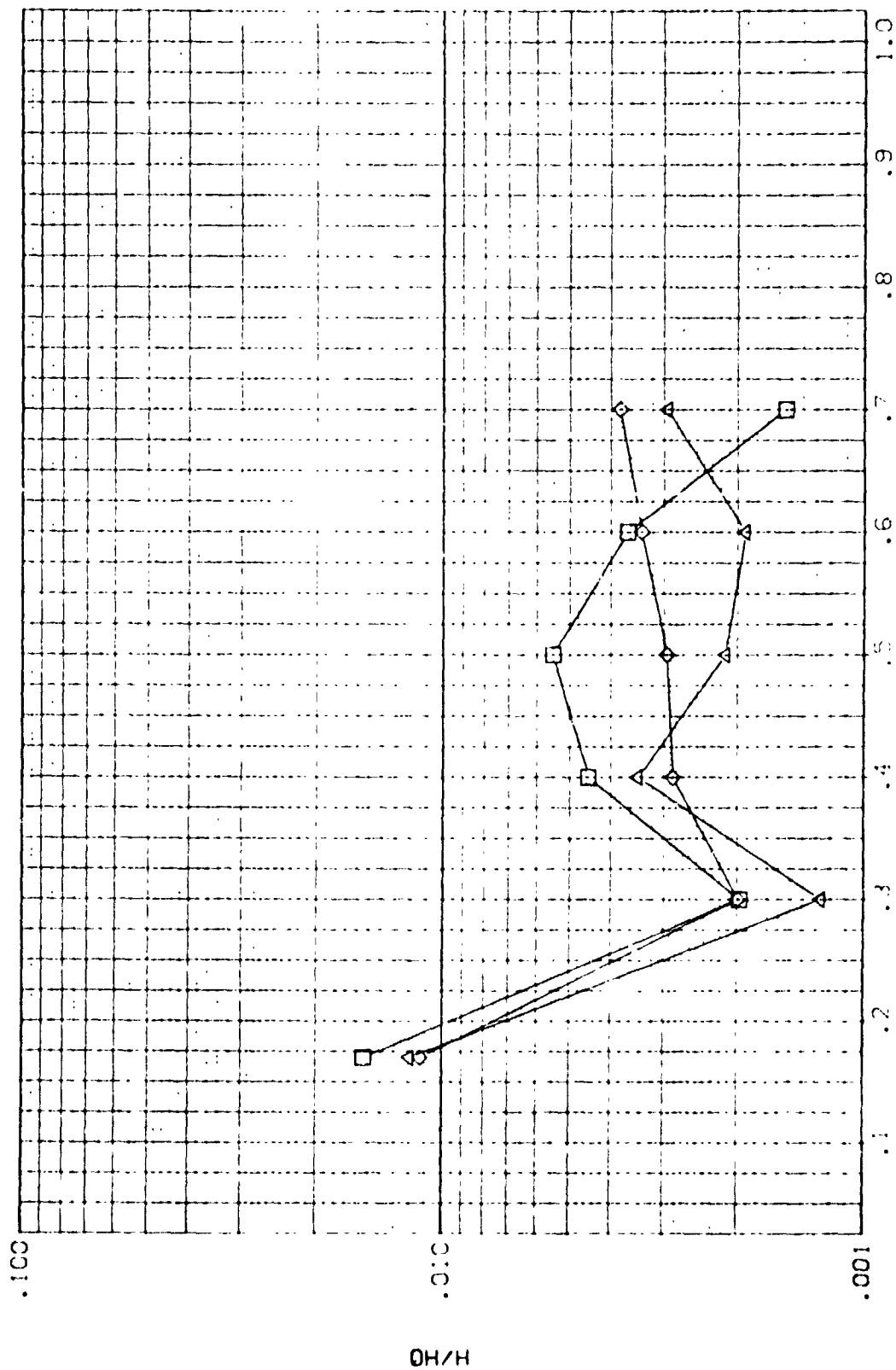


FIG 18 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

REYNOLDS NUMBER = 4.000 MACH NUMBER = 8.000 W.P. = 501.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(POLSC2)  DATA NOT AVAILABLE
(POLSC3) 
(POLSC4) 
(POLSC5) 

CH14 B2207554/701111 FUSELAGE UPPER SURFACE
CH14 B2207554/701111 FUSELAGE UPPER SURFACE
CH14 B2207554/701111 FUSELAGE UPPER SURFACE

ALPHA MACH
20.000 8.000
25.000 8.000
30.000 8.000
35.000 8.000

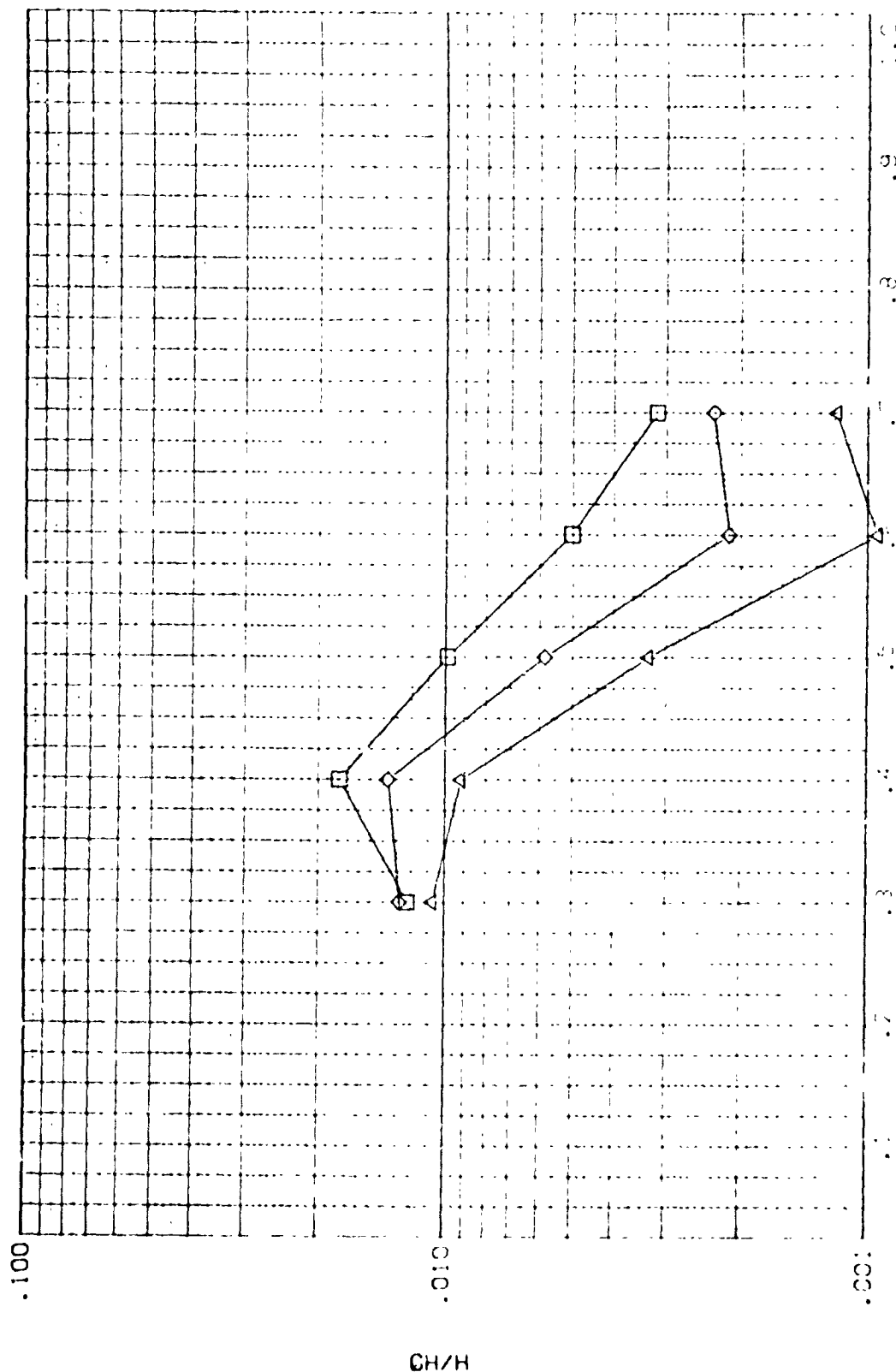


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

PN/L = 4.000 ALPHA = 20.000 MACH = 8.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(POLSC2) DATA NOT AVAILABLE
 (POLSC3) CH14 B22C2F5M4T8.111 FUSELAGE UPPER SURFACE
 (POLSC4) CH14 B22C2F5M4T8.111 FUSELAGE UPPER SURFACE
 (POLSC5) CH14 B22C2F5M4T8.111 FUSELAGE UPPER SURFACE

ALPHA BETA MACH
 25.000 0.000 8.000
 25.000 0.000 8.000
 30.000 0.000 8.000
 35.000 0.000 8.000

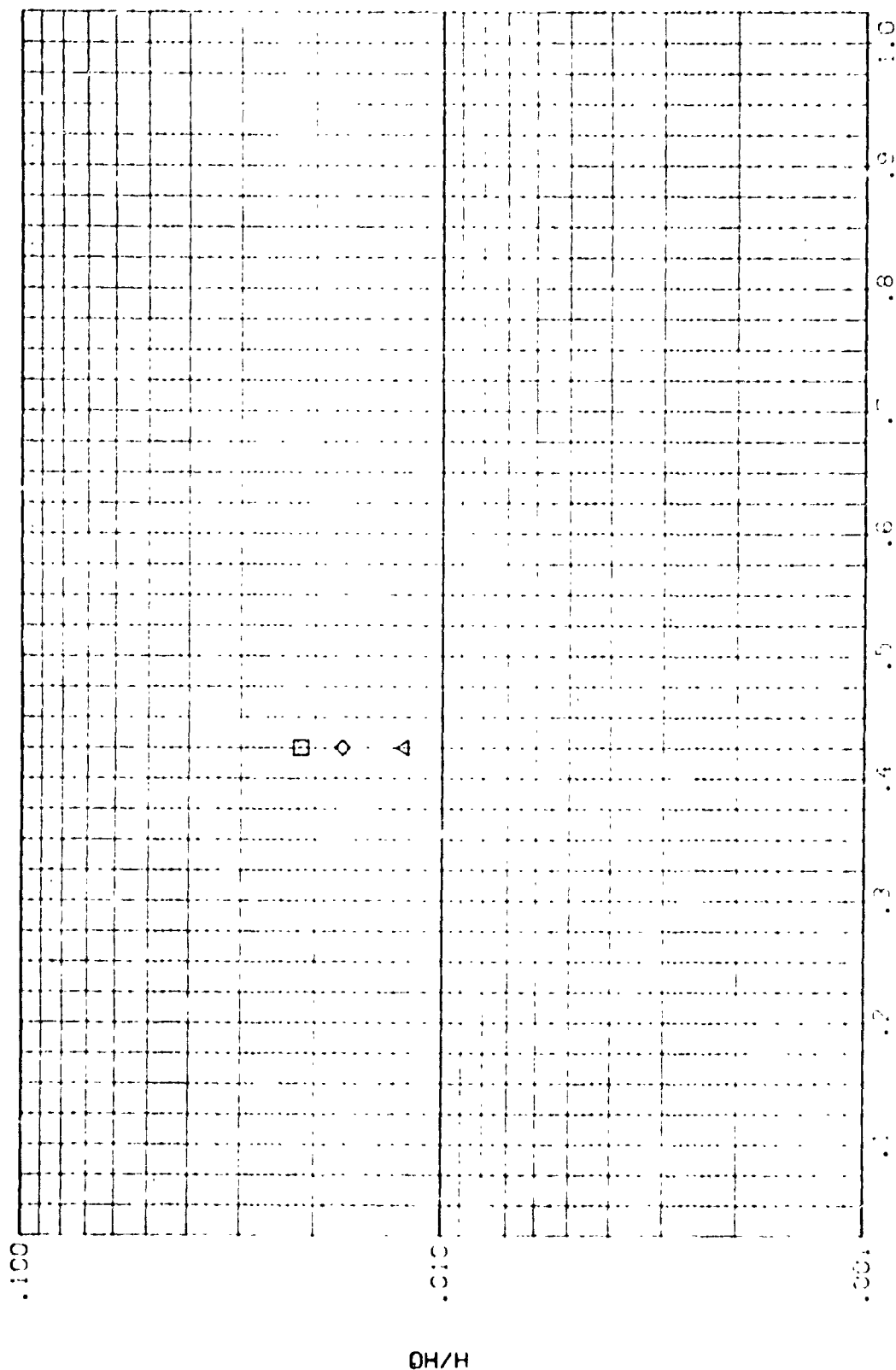


FIG 18 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
 VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RCL S02)
(RCL S03)
(RCL S04)
(RCL S05)

DATA NOT AVAILABLE
OH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE
OH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE
OH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE

ALPHA BETA MACH
20.000 .000 8.000
25.000 .000 8.000
30.000 .000 8.000
35.000 .000 8.000

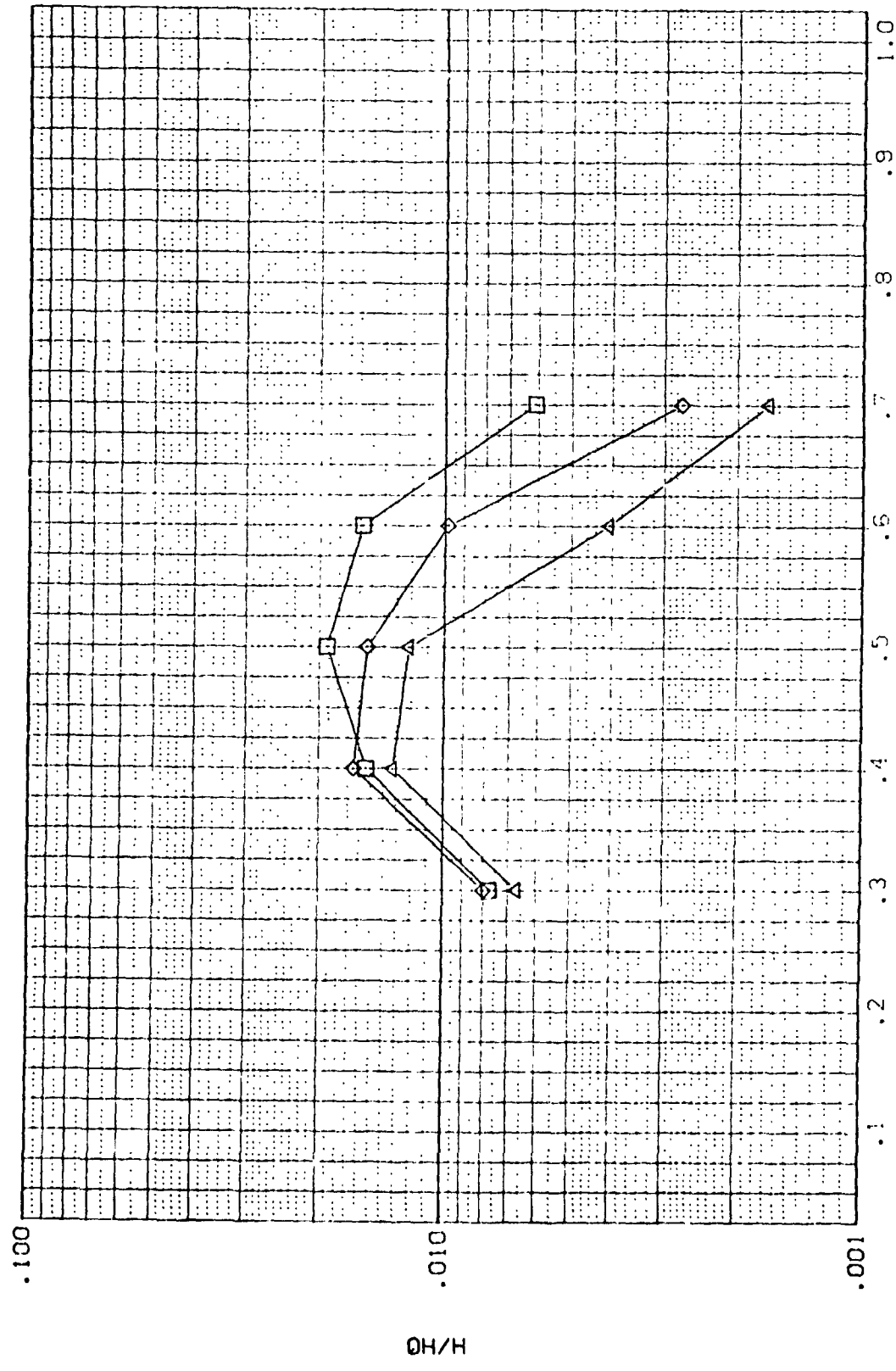


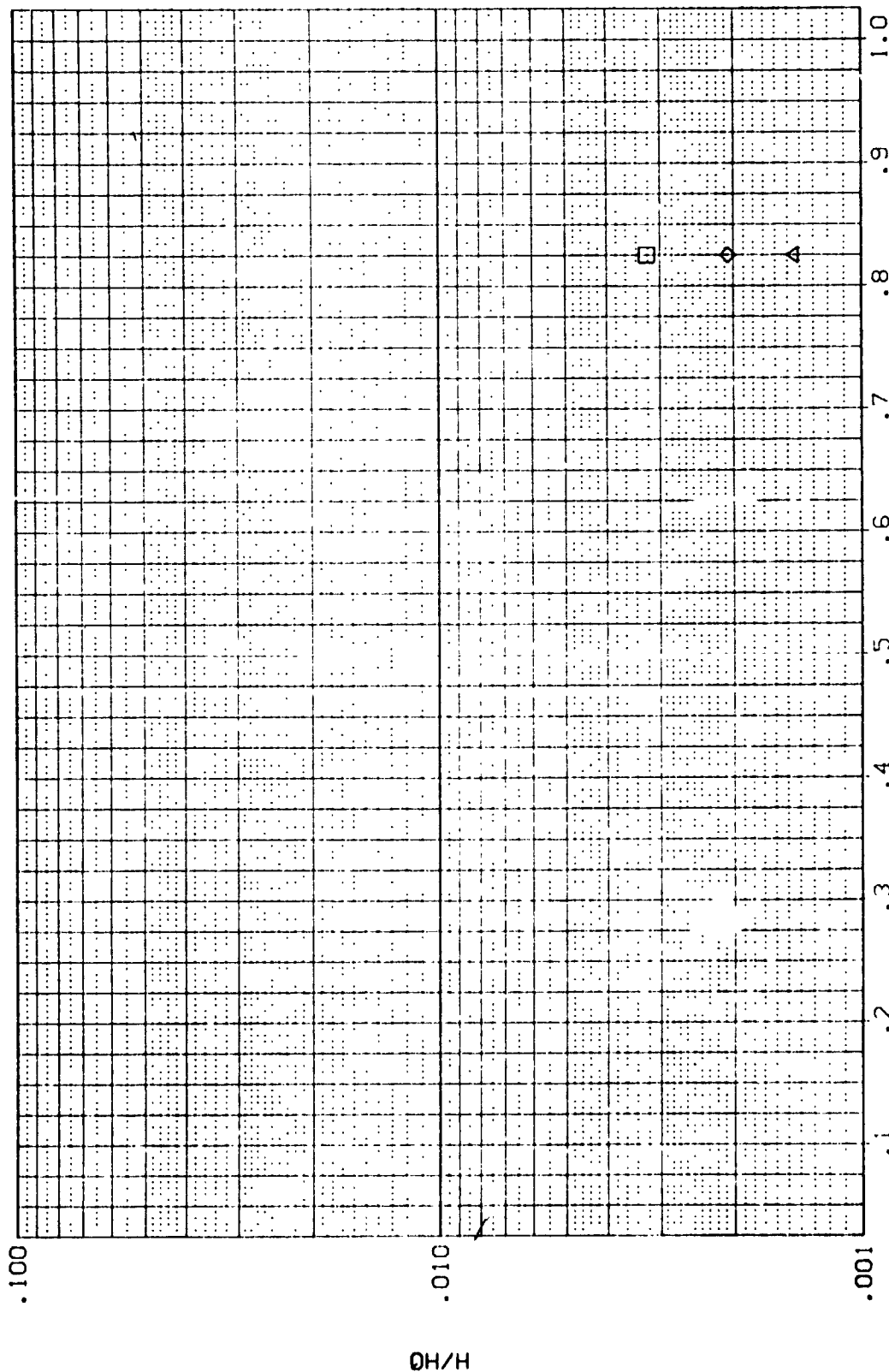
FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 4.000 HAW/HT = .900 W.P. = 425.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(POL502) DATA NOT AVAILABLE
 (POL503) CH14 B22C7F5M4V7M111 FUSELAGE UPPER SURFACE
 (POL504) CH14 B22C7F5M4V7M111 FUSELAGE UPPER SURFACE
 (POL505) CH14 B22C7F5M4V7M111 FUSELAGE UPPER SURFACE

ALPHA BETA MACH
 20.000 8.000
 25.000 8.000
 30.000 8.000
 35.000 8.000



LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH

FIG 18 VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 4.000 HAW/HT = .900 W.P. = 465.000

DATA SET SYMBOL
(RQLS02)
(RQLS03)
(RQLS04)
(RQLS05)

CONFIGURATION DESCRIPTION

DATA NOT AVAILABLE
CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE
CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE
CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

ALPHA BETA MACH
25.000 .000 8.000
25.000 .000 8.000
30.000 .000 8.000
35.000 .000 8.000

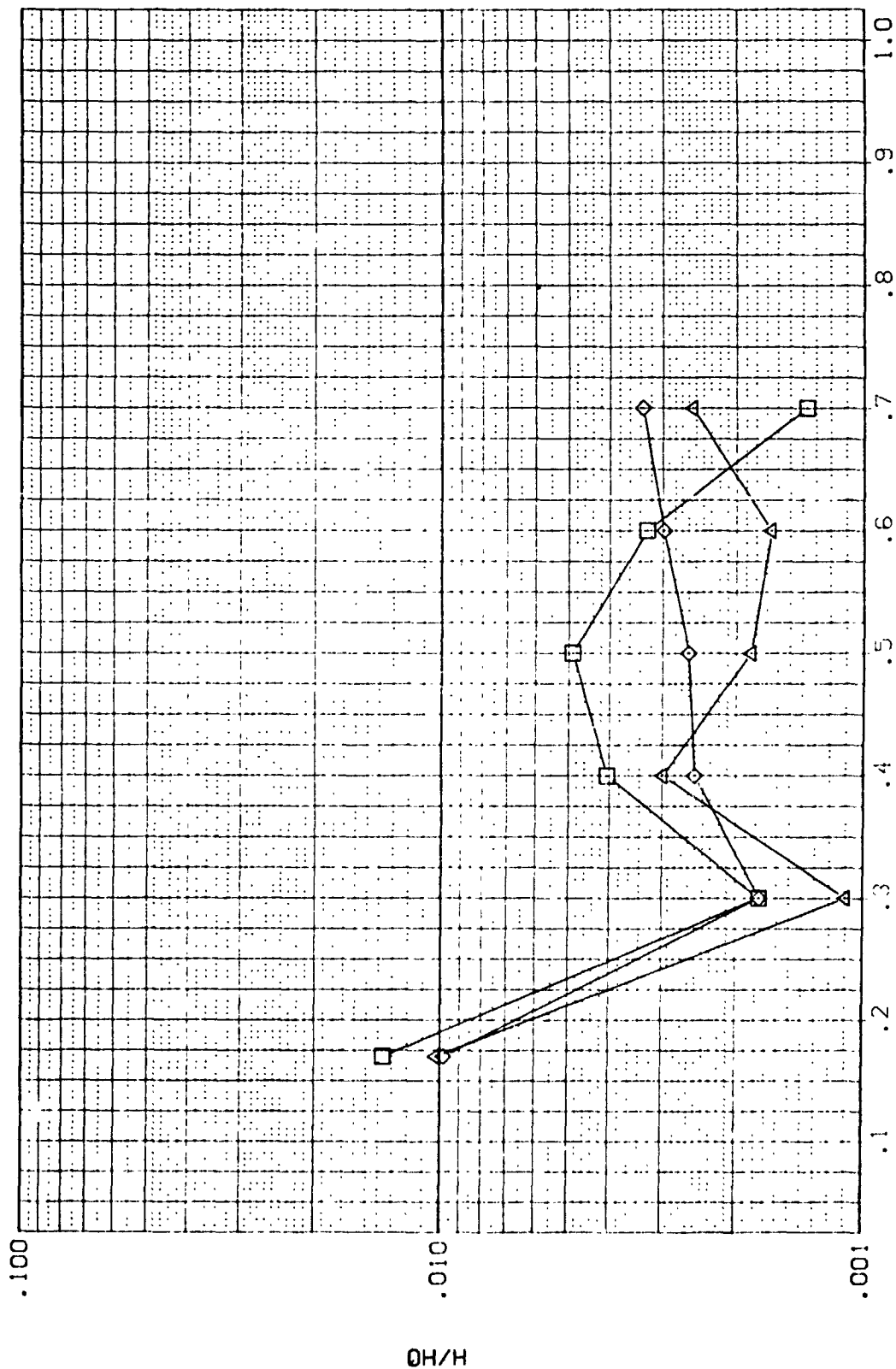


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 4.000 HAW/HT = .900 W.P. = 501.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RZLS02) DATA NOT AVAILABLE
 (RZLS03) CH-4 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE
 (RZLS04) CH-4 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE
 (RZLS05) CH-4 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

ALPHA

BETA

MACH

20.000
25.000
30.000
35.000

.000
.000
.000
.000

8.000
8.000
8.000
8.000

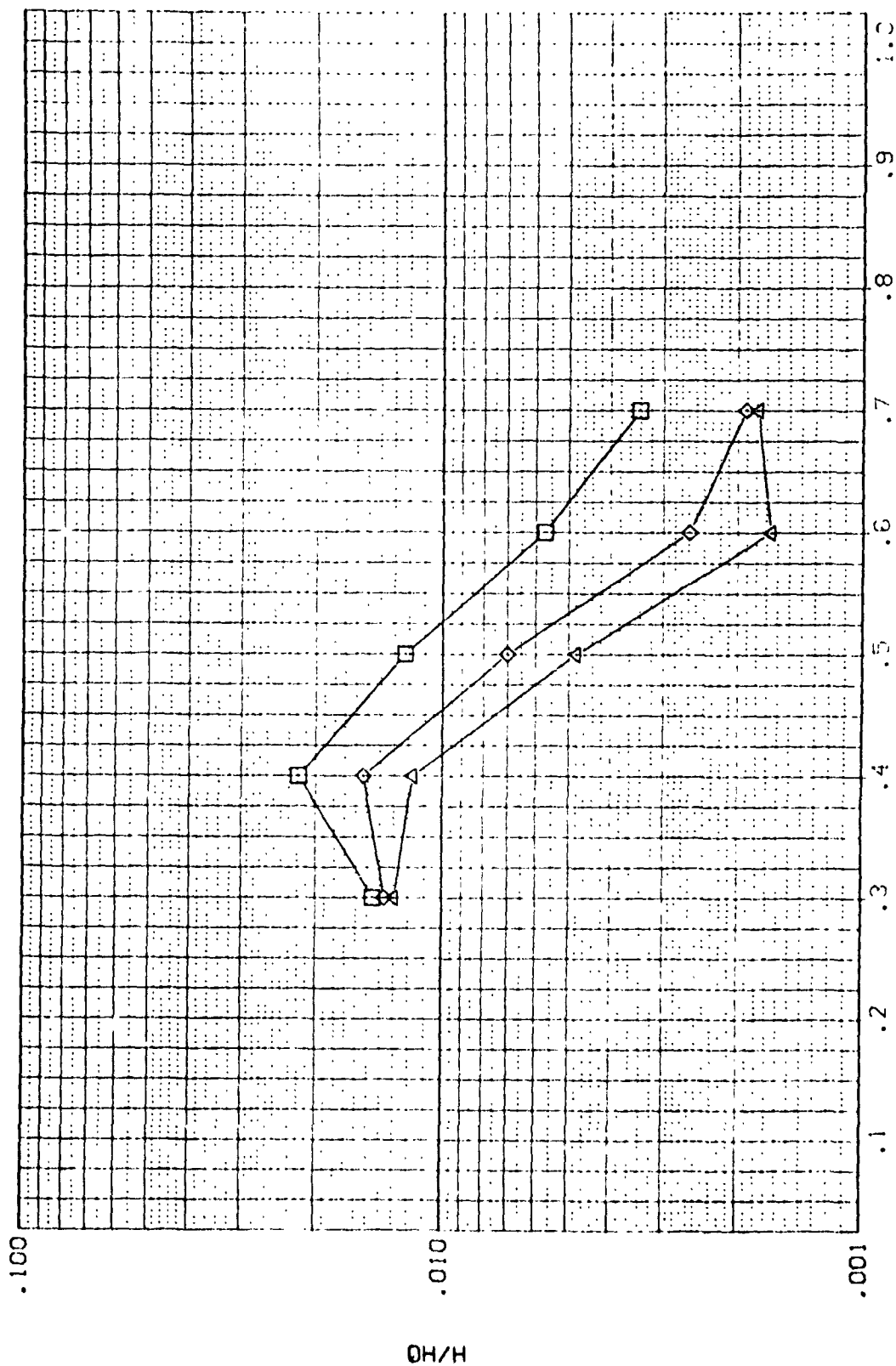


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 5.000 HAW/HT = .850 W.P. = 375.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(R0LS02)  DATA NOT AVAILABLE
 (R0LS03)  CH14 B22C7F5M4V7M111 FUSELAGE UPPER SURFACE
 (R0LS04)  CH14 B22C7F5M4.7M111 FUSELAGE UPPER SURFACE
 (R0LS05)  CH14 B22C7F5M4V7M111 FUSELAGE UPPER SURFACE

ALPHA BETA MACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000

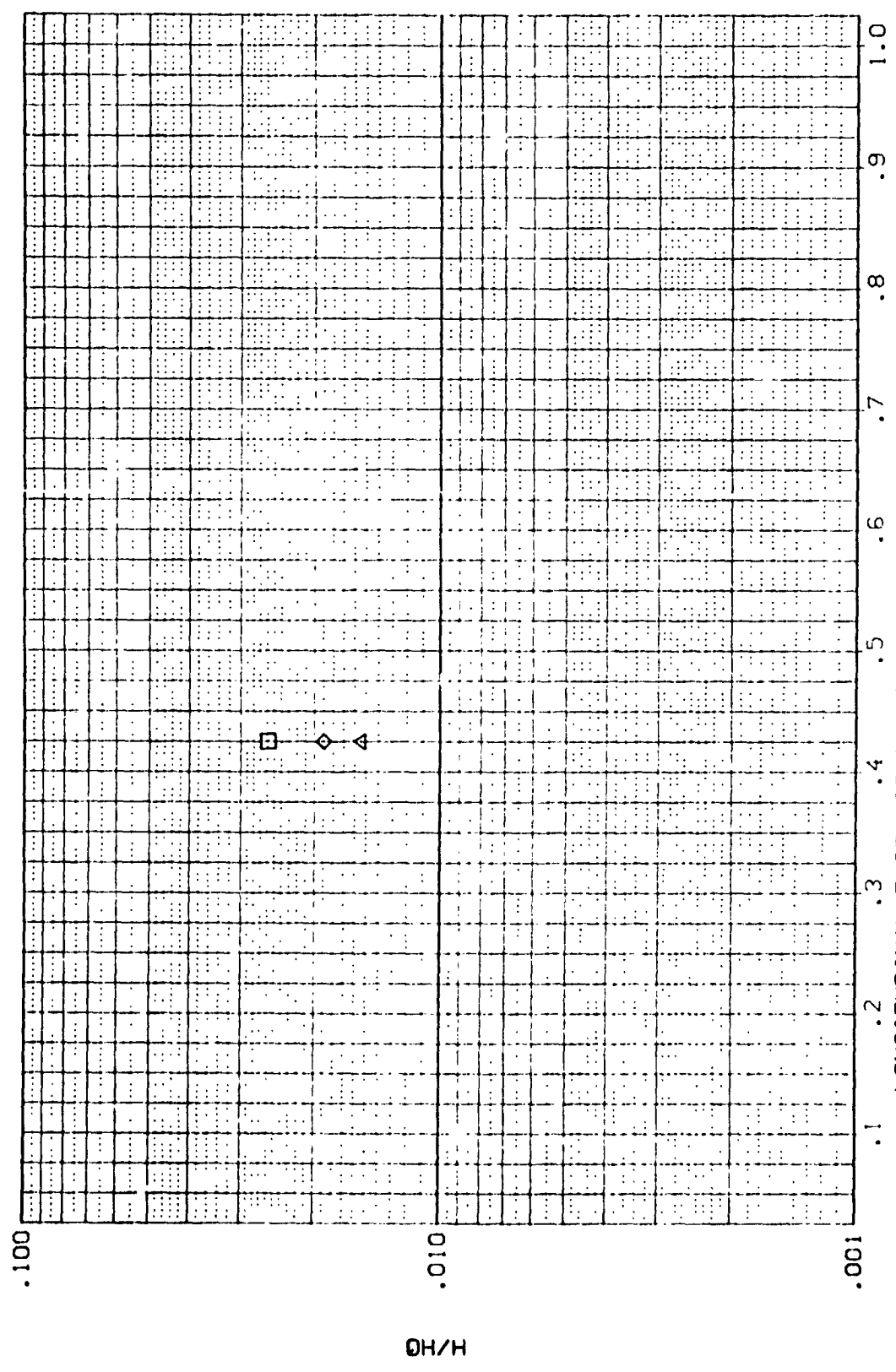


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
 VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 5.000 H_{max}/H = .850 W.P. = 100.000

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|---|--------|------|-------|
| (PQLSC2) | □ | DATA NOT AVAILABLE | 20.000 | .000 | 8.000 |
| (PQLSC3) | ○ | CH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (PQLSC4) | △ | CH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (PQLSC5) | ◇ | CH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

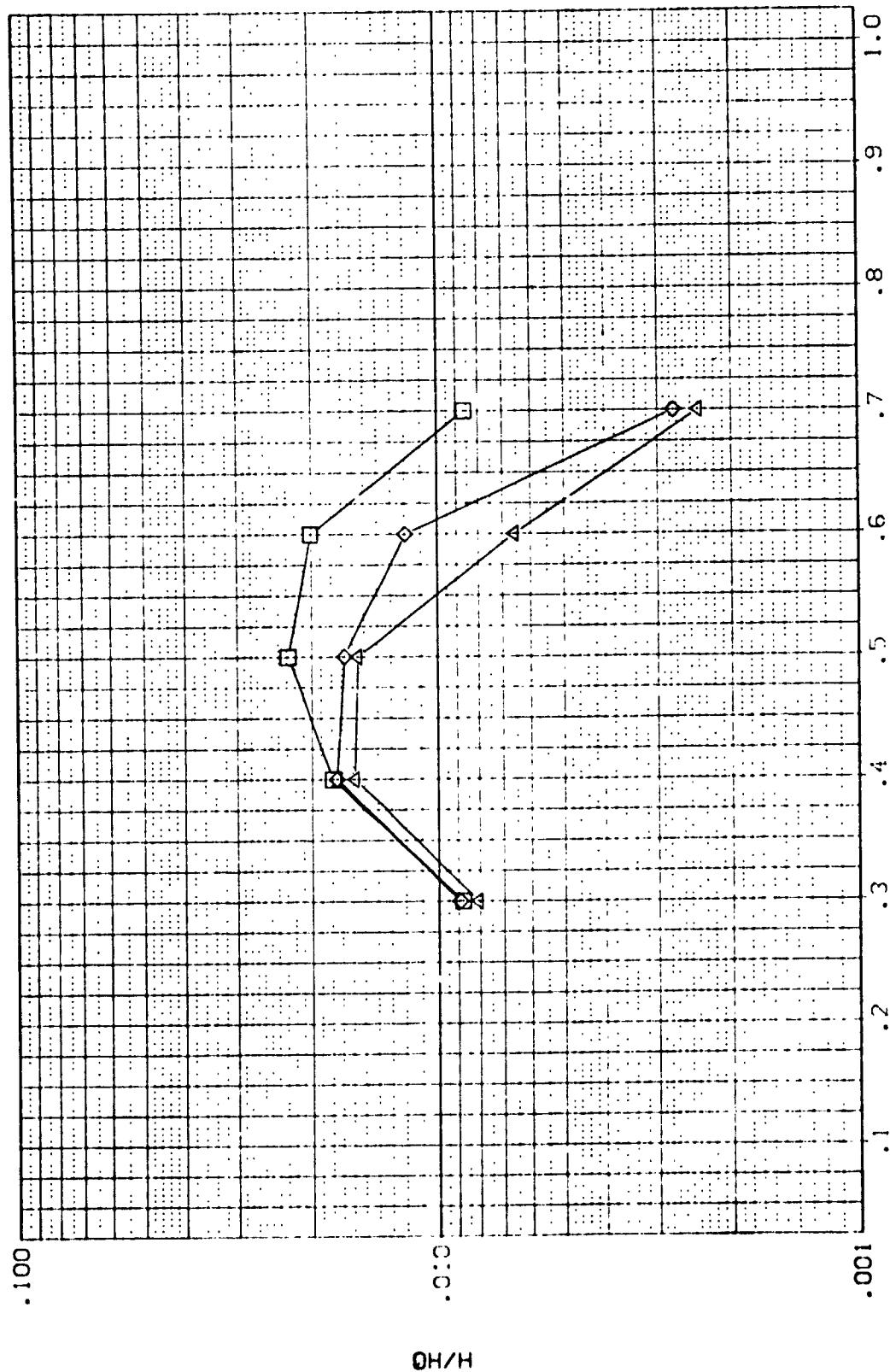


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RQ1SC2)
(RQ1SC3)
(RQ1SC4)
(RQ1SC5)



DATA NOT AVAILABLE
C-14 B22C7FS4V7W111 FUSELAGE UPPER SURFACE
C-14 B22C7FS4V7W111 FUSELAGE UPPER SURFACE
C-14 B22C7FS4V7W111 FUSELAGE UPPER SURFACE

ALPHA BETA MACH
20.000 .000 8.000
25.000 .000 8.000
30.000 .000 8.000
35.000 .000 8.000

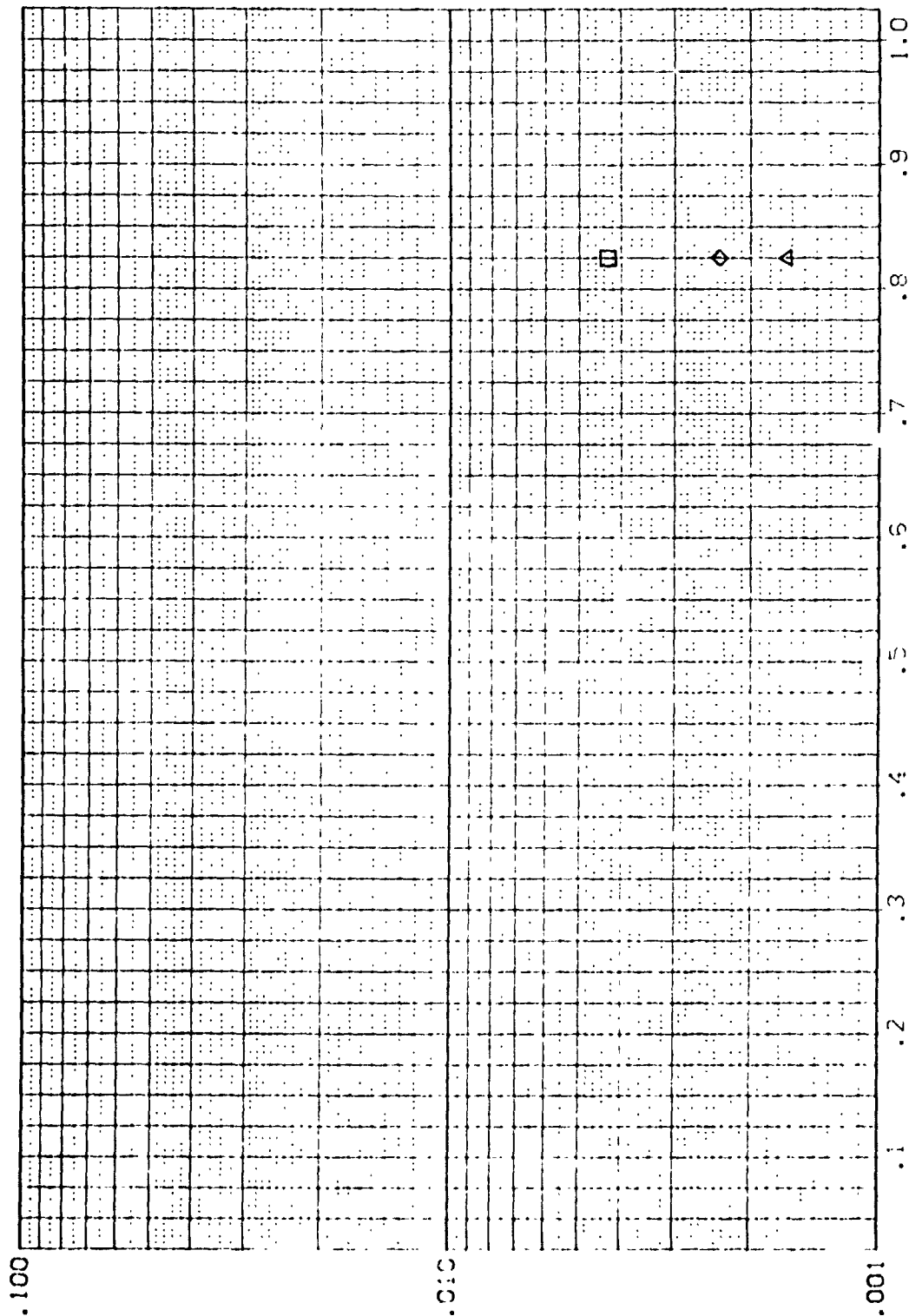


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 5.000 HAW/HT = .850 W.P. = 465.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(PCL502) □ DATA NOT AVAILABLE
(PCL503) ◇ CH-4 B22C7F5M4V74111 FUSELAGE UPPER SURFACE
(PCL504) △ CH-4 B22C7F5M4V74111 FUSELAGE UPPER SURFACE
(PCL505) CH-4 B22C7F5M4V74111 FUSELAGE UPPER SURFACE

ALP-4A BETA MACH
20.000 .000 8.000
25.000 .000 8.000
30.000 .000 8.000
35.000 .000 8.000

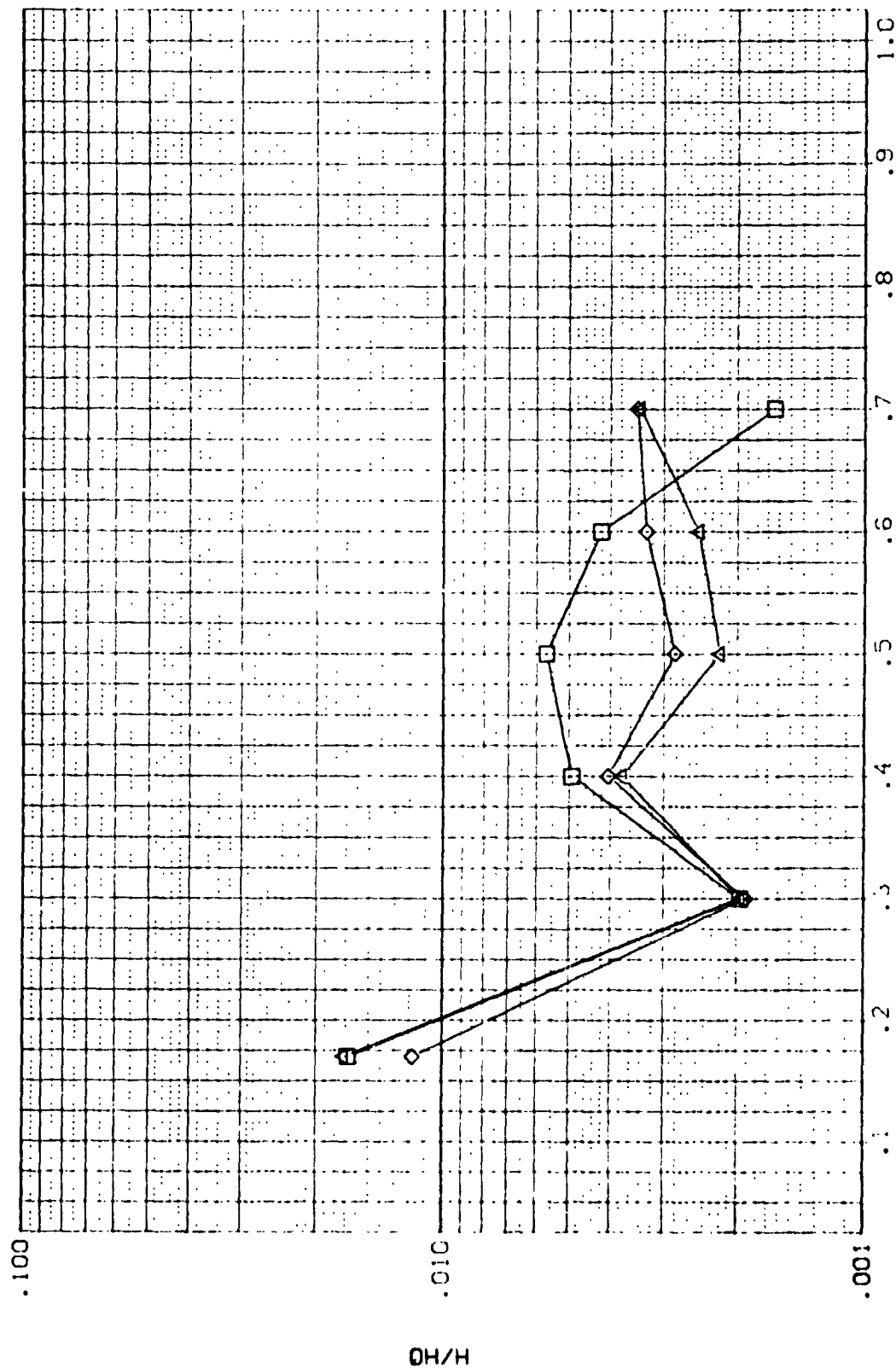


FIG 18 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 5.000 HAW/HT = .850 W.P. = 501.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RQLS02) DATA NOT AVAILABLE
 (RQLS03) DM14 B22C7FSM4V7M111 FUSELAGE UPPER SURFACE
 (RQLS04) DM14 B22C7FSM4V7M111 FUSELAGE UPPER SURFACE
 (RQLS05) DM14 B22C7FSM4V7M111 FUSELAGE UPPER SURFACE

ALPHA BETA MACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000

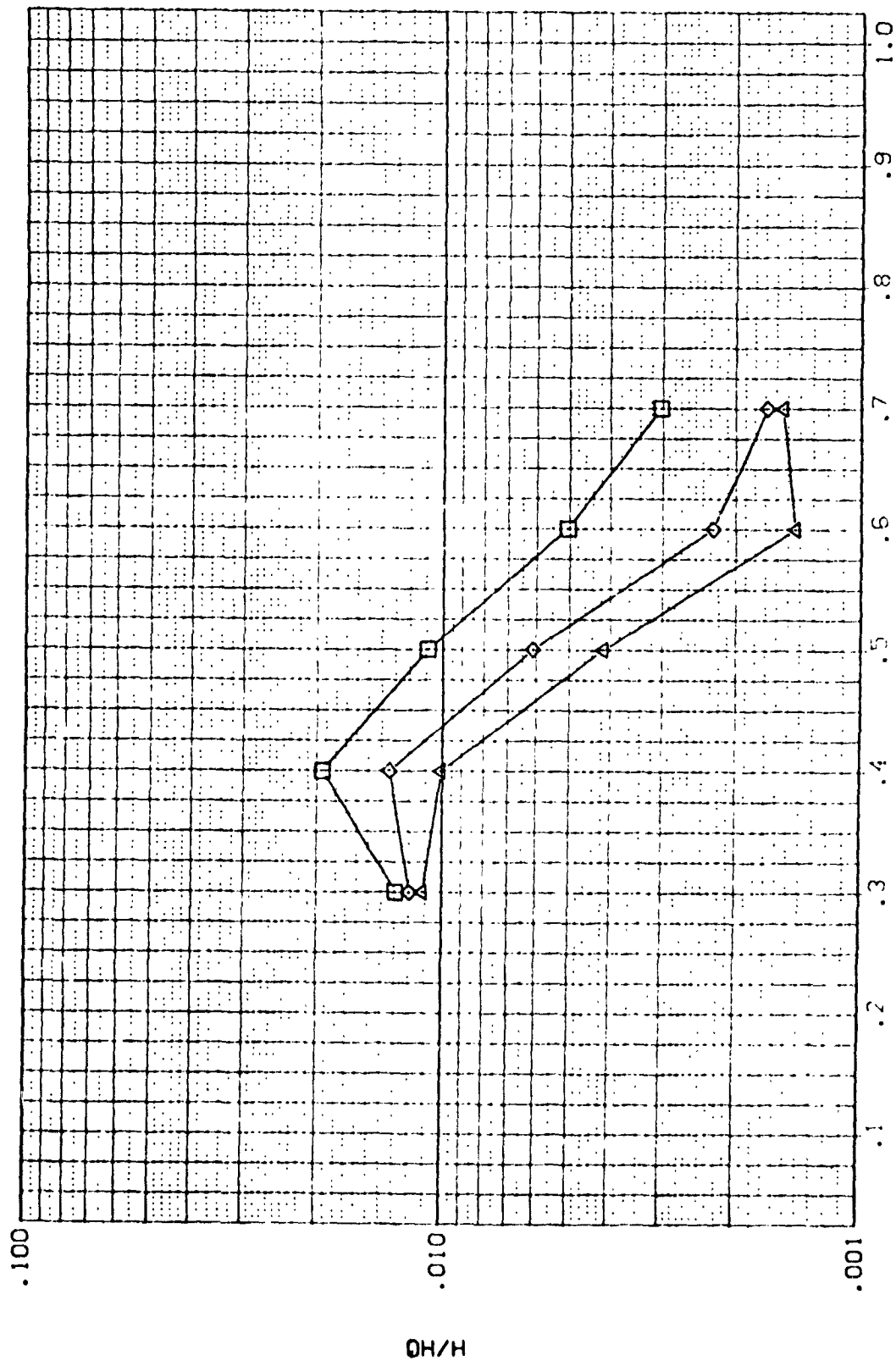


FIG 18 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
 VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 5.000 MAW/HT = .900 W.P. = 375.000

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|-----------|--------|--|--------|------|-------|
| (RCL S02) | □ | DATA NOT AVAILABLE | 20.000 | .000 | 8.000 |
| (RCL S03) | ◇ | 0414 B22C75M4V7W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (RCL S04) | △ | 0414 B22C75M4V7W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (RCL S05) | × | 0414 B22C75M4V7W111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

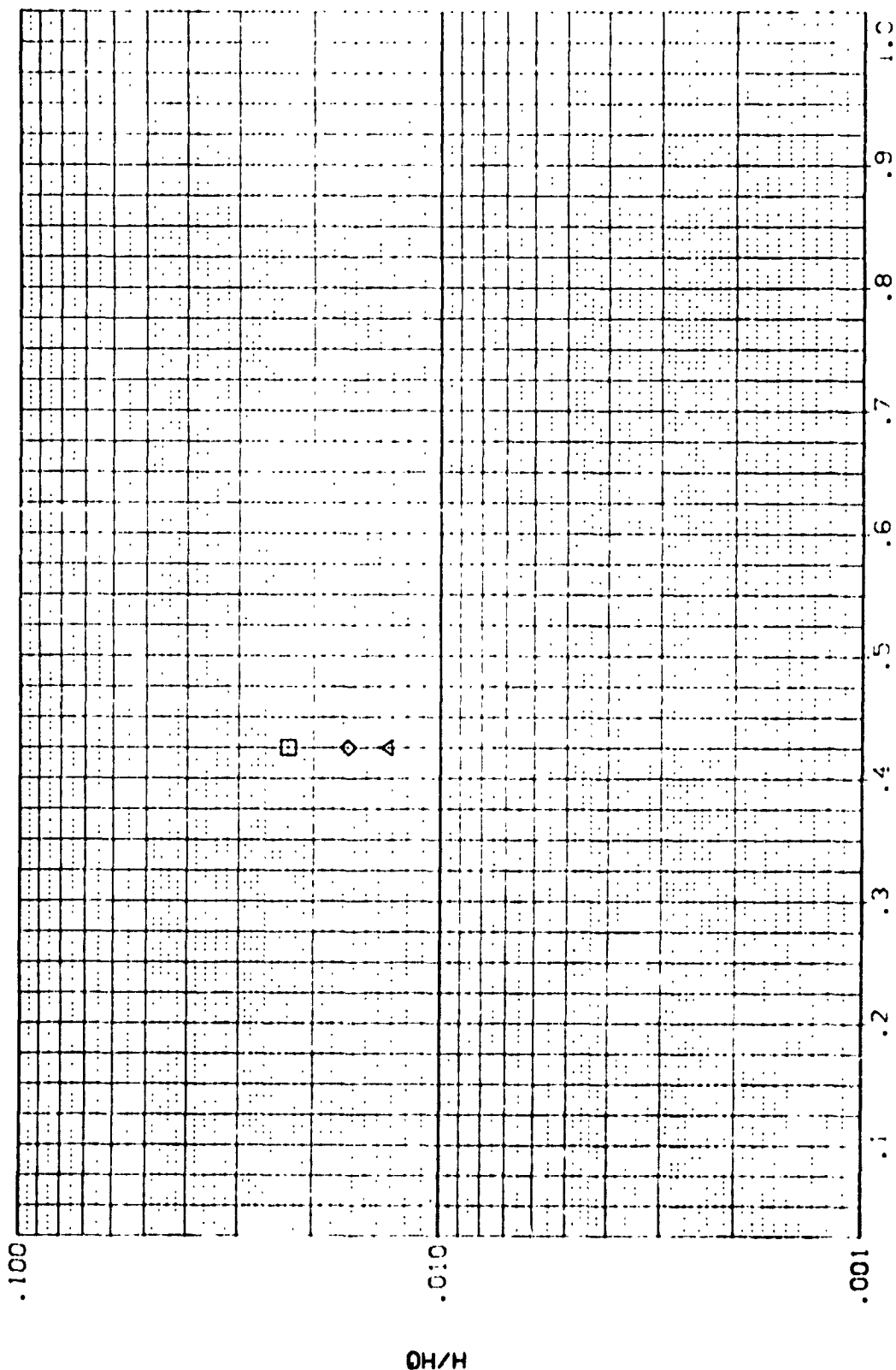


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 5.000 HAW/HT = .900 W.P. = 400.000

DATA SET: SYMBOL CONFIGURATION DESCRIPTION

(RQ1 SQ2) DATA NOT AVAILABLE
 (RQ1 SQ3) DM14 B22C7FSM4V7W111: FUSELAGE UPPER SURFACE
 (RQ1 SQ4) DM14 B22C7FSM4V7W111: FUSELAGE UPPER SURFACE
 (RQ1 SQ5) DM11 B22C7FSM4V7W111: FUSELAGE UPPER SURFACE

ALPHA BETA MACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000

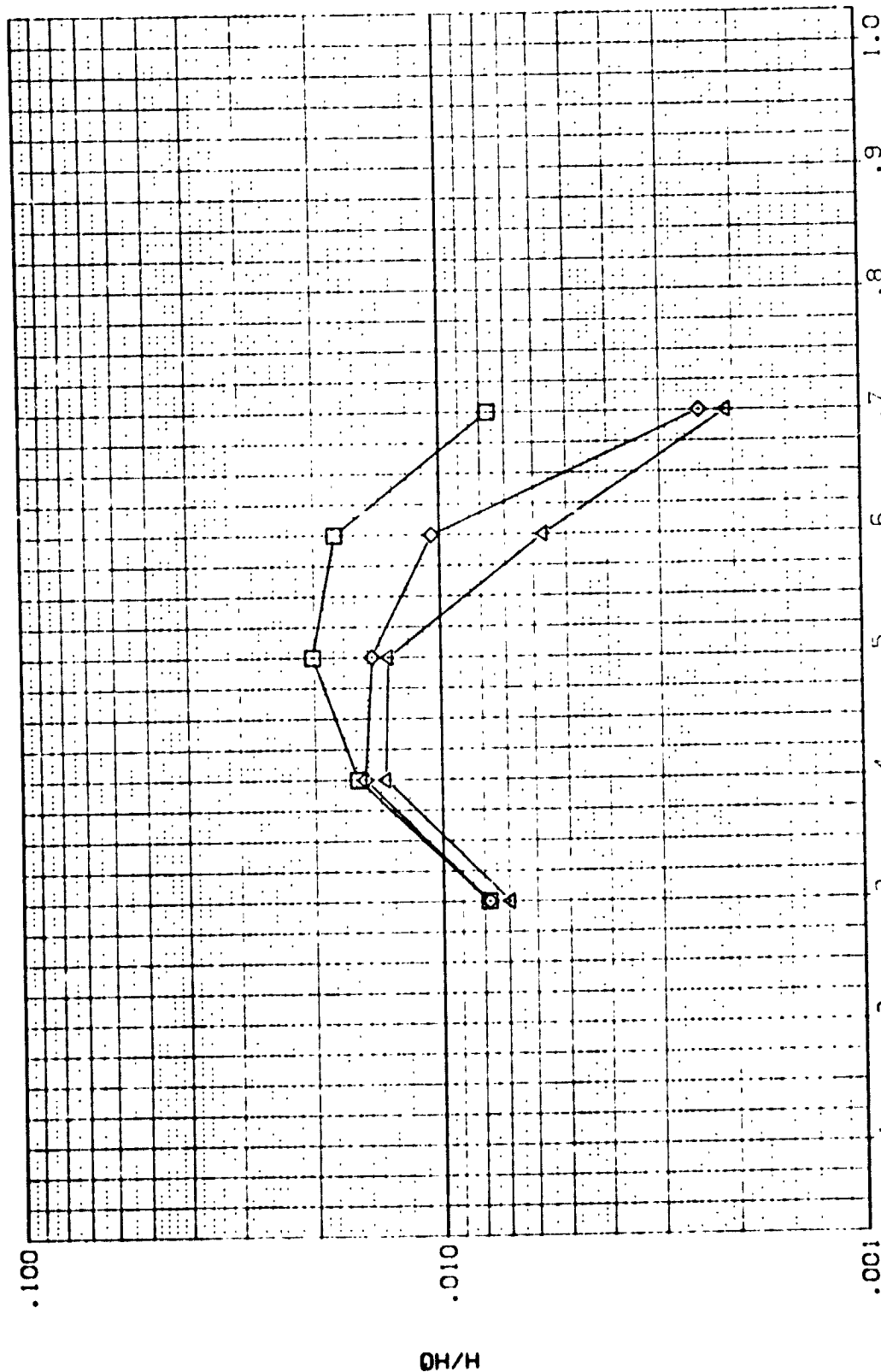


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
 VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(PQ-S22)  DATA NOT AVAILABLE
(PQ-S23)  D-14 B22C7F5M4V7W1111 FUSELAGE UPPER SURFACE
(PQ-S24)  D-14 B22C7F5M4V7W1111 FUSELAGE UPPER SURFACE
(PQ-S25)  D-14 B22C7F5M4V7W1111 FUSELAGE UPPER SURFACE

ALPHA BETA MACH
20.000 8.000
25.000 8.000
30.000 8.000
35.000 8.000

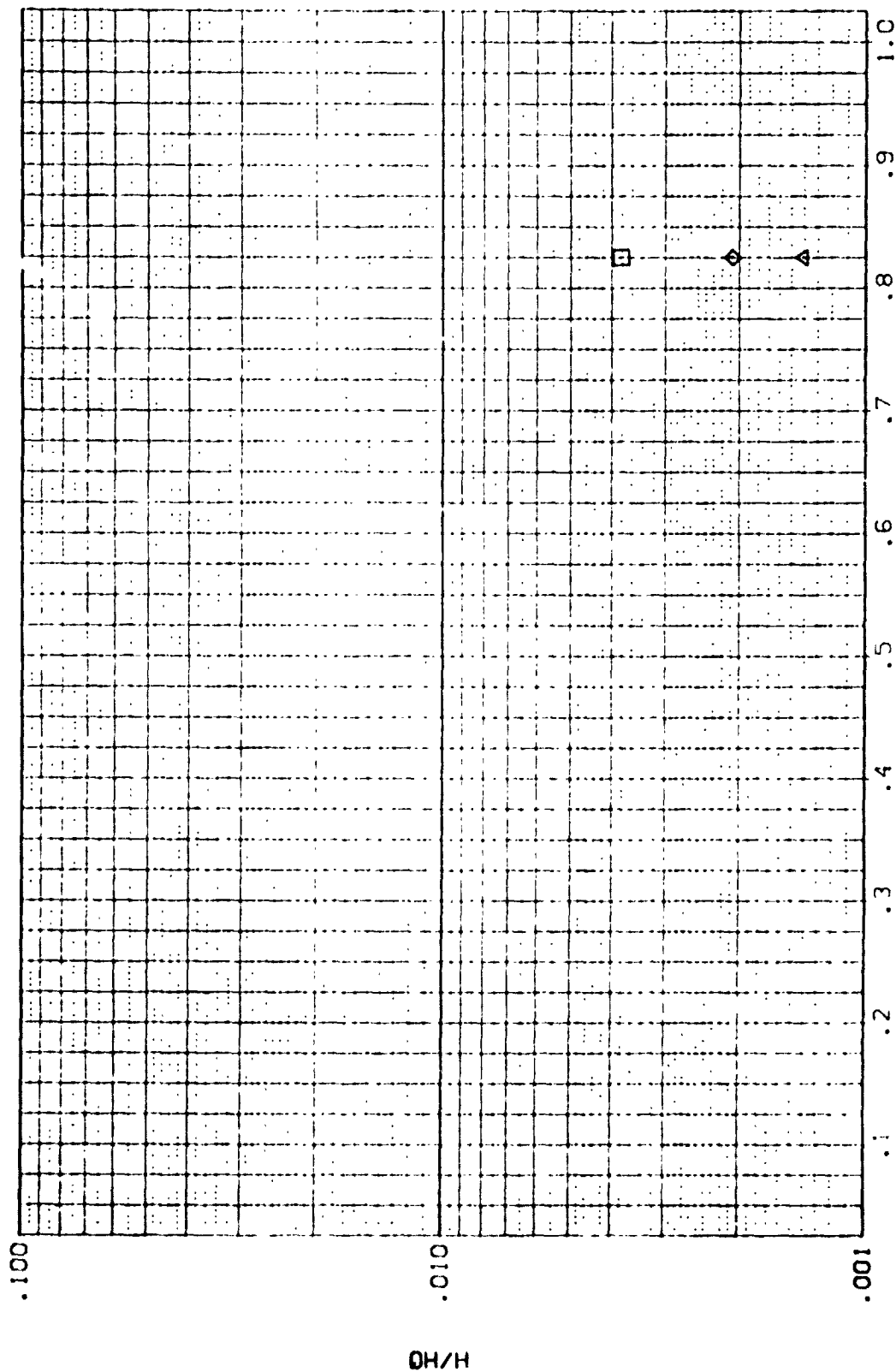


FIG 18 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 5.000 HAW/HI = .900 W.P. = 465.000

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|-----------|--------|--|--------|------|-------|
| (POL 502) | □ | DATA NOT AVAILABLE | 20.000 | .000 | 8.000 |
| (POL 503) | ◇ | CH14 B22C7FS4V7N111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (POL 504) | △ | CH14 B22C7FS4V7N111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (POL 505) | △ | CH14 B22C7FS4V7N111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

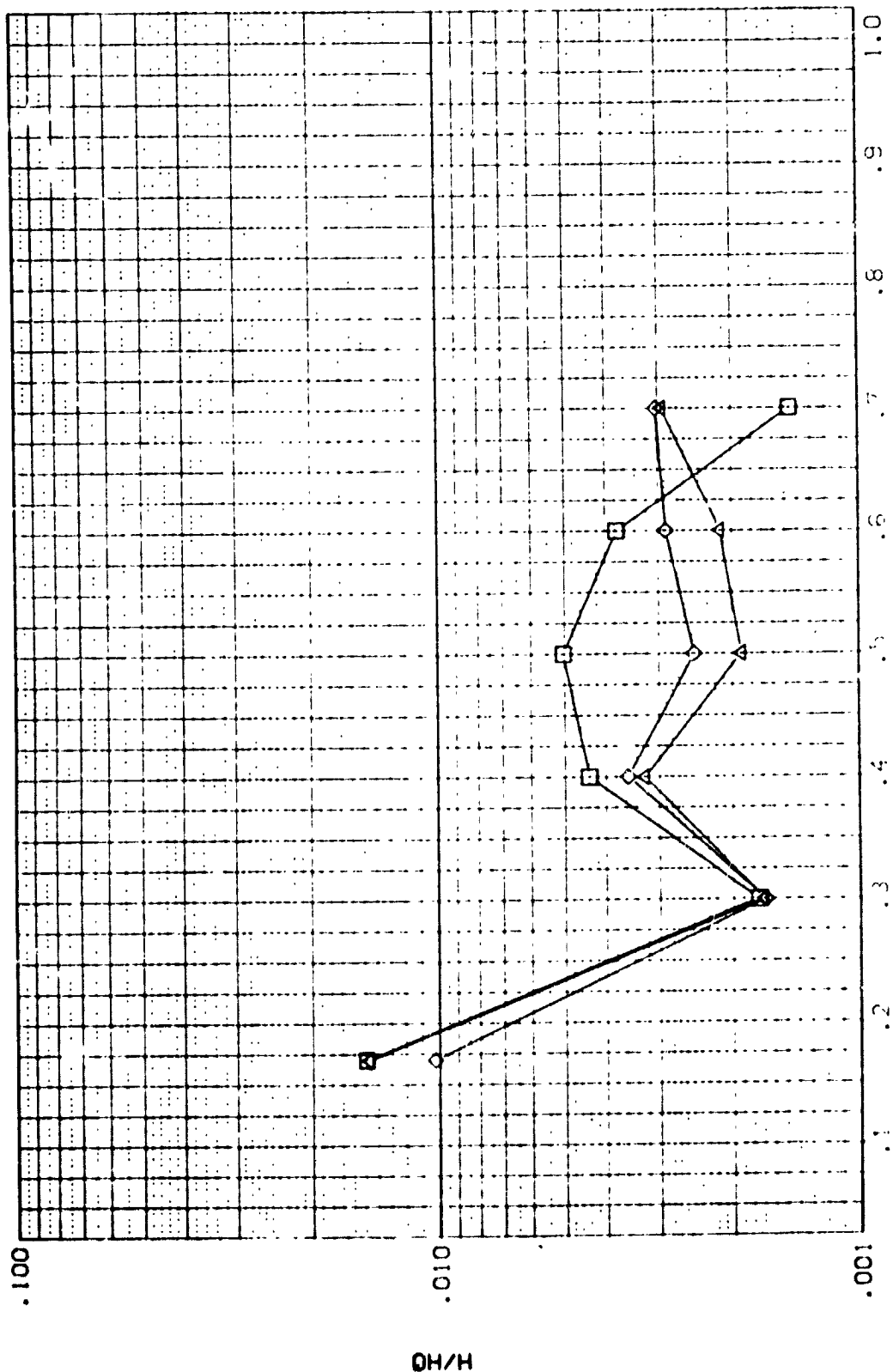
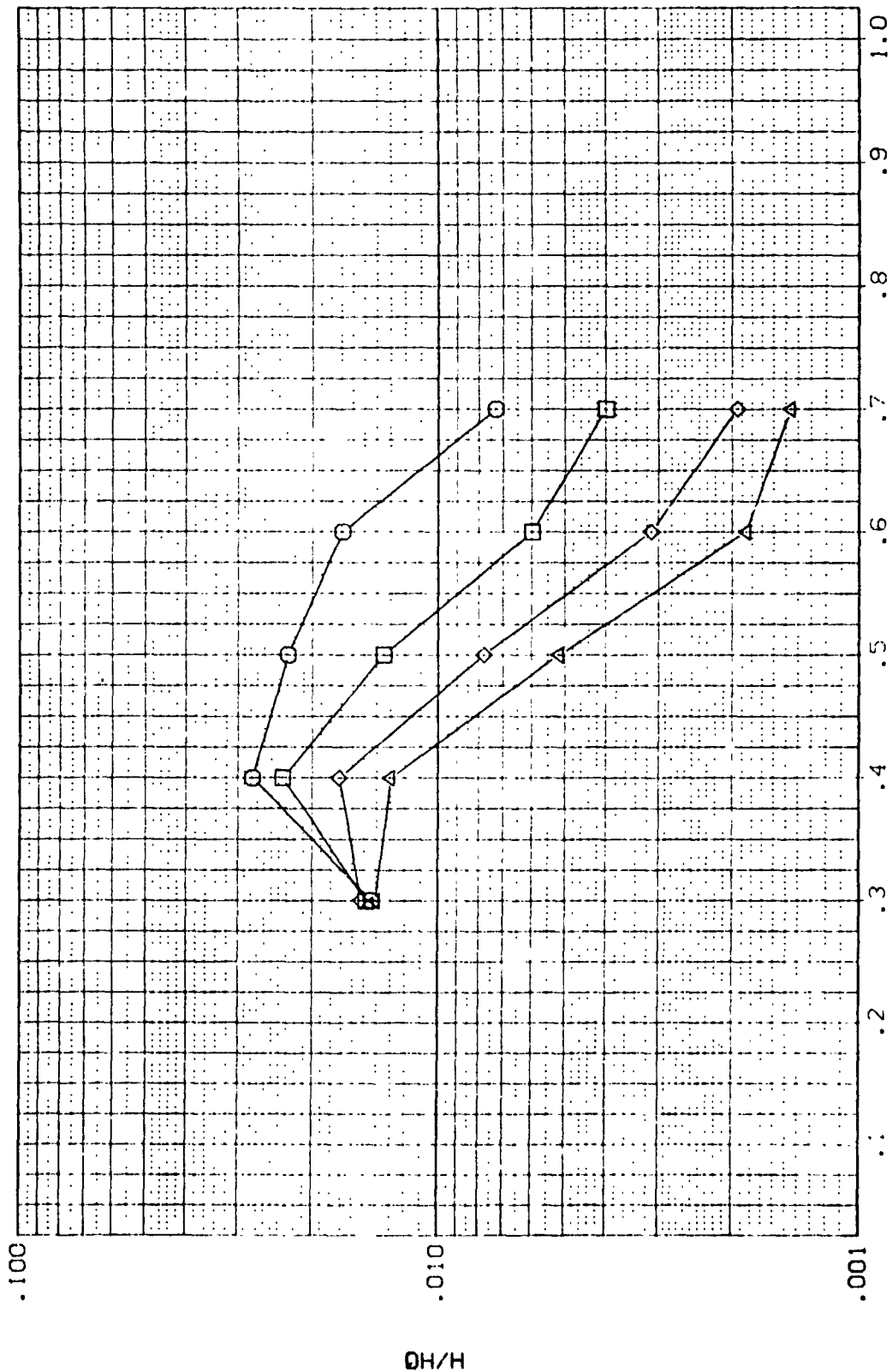


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (POLS02) | ○ | C-14 B22C7FS4V7W111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (POLS03) | □ | C-14 B22C7FS4V7W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (POLS04) | ◇ | C-14 B22C7FS4V7W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (POLS05) | △ | C-14 B22C7FS4V7W111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |



LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 6.000 HAW/HT = .850 W.P. = 275.000

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|---|--------|------|-------|
| (RQ1S02) | □ | CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (RQ1S03) | □ | CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (RQ1S04) | □ | CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (RQ1S05) | ⊗ | CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

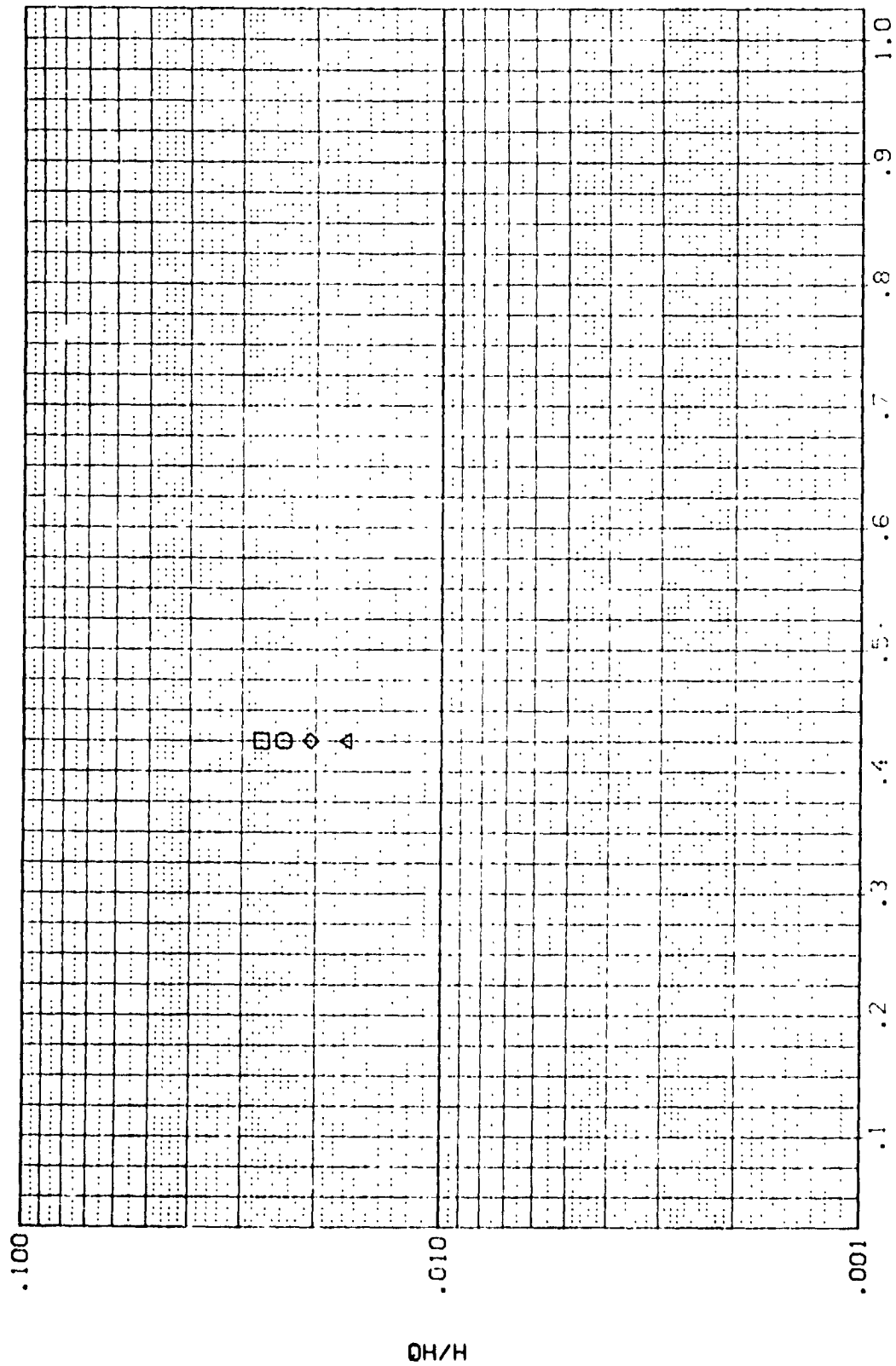


FIG 18 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 6.000 HAW/HT = .850 W.P. = 400.000

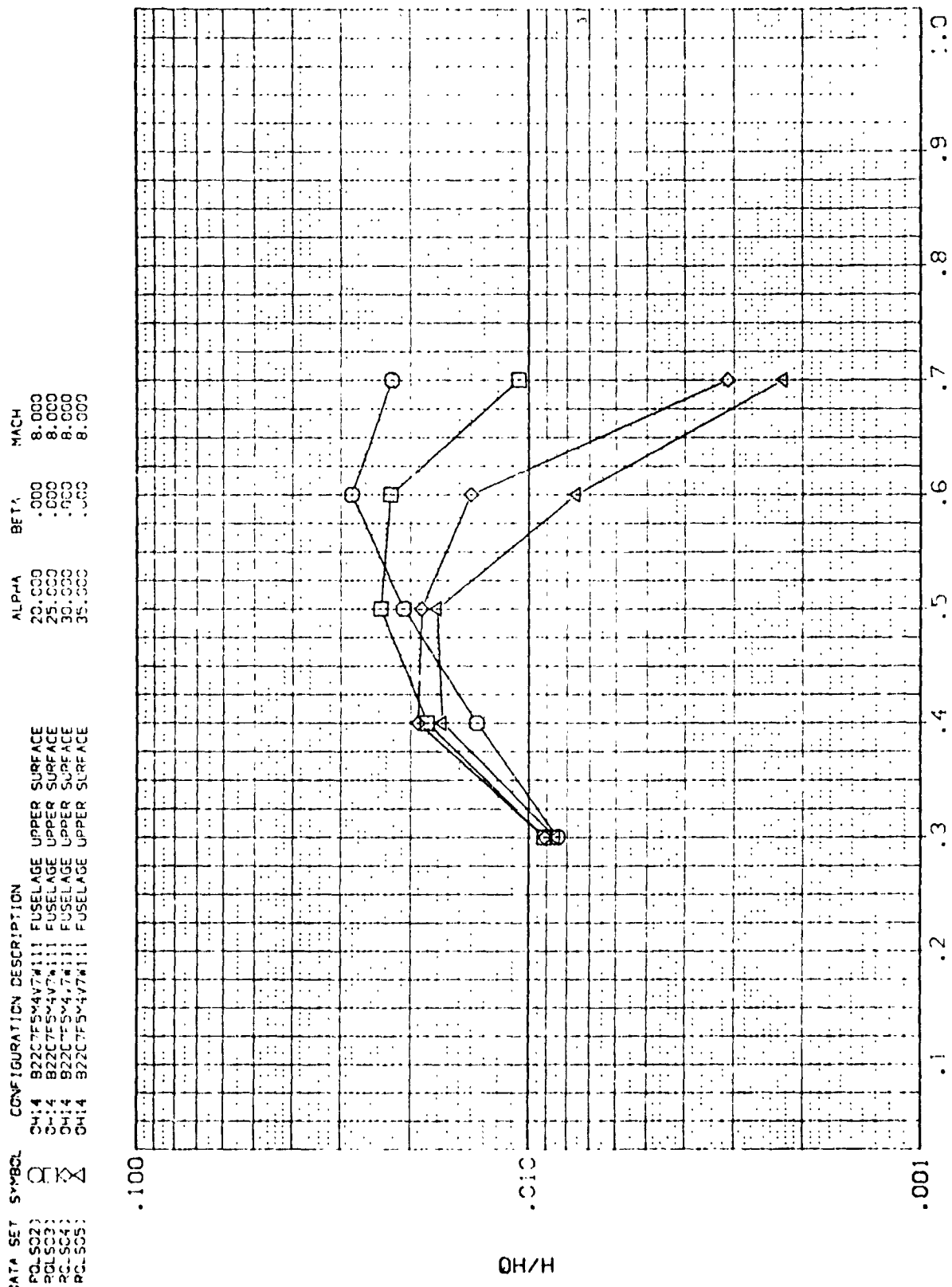


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (POL502) | □ | M14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (POL503) | □ | M14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (POL504) | ◇ | M14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (POL505) | △ | M14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

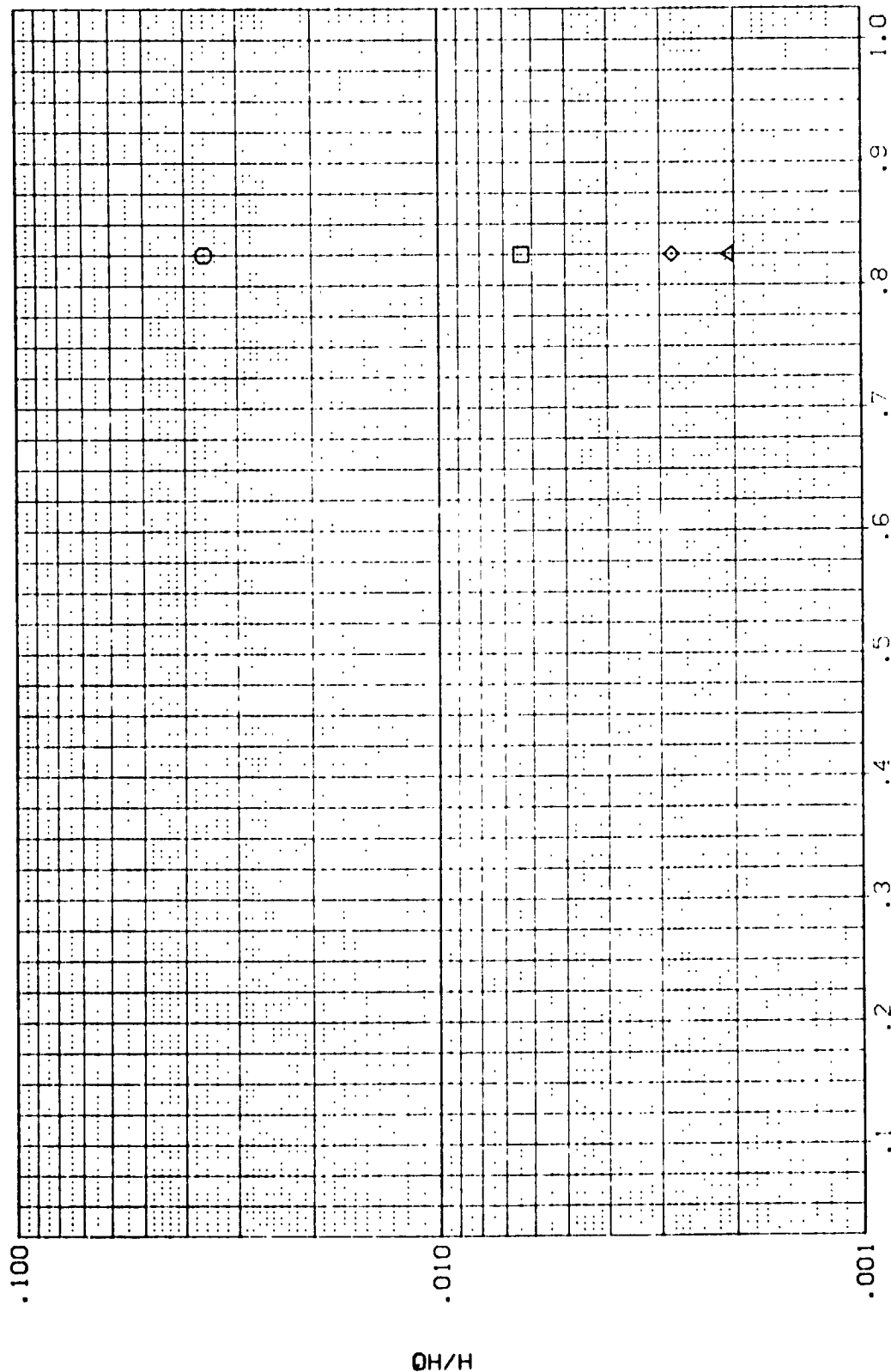


FIG 18 LONGITUDINAL FUSELAGE STATION. X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 6.000 HAW/HT = .850 W.P. = 465.000 PAGE 276

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|---|--------|------|-------|
| (R2LS02) | ○ | OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (R2LS03) | △ | OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (R2LS04) | ◇ | OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (R2LS05) | □ | OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

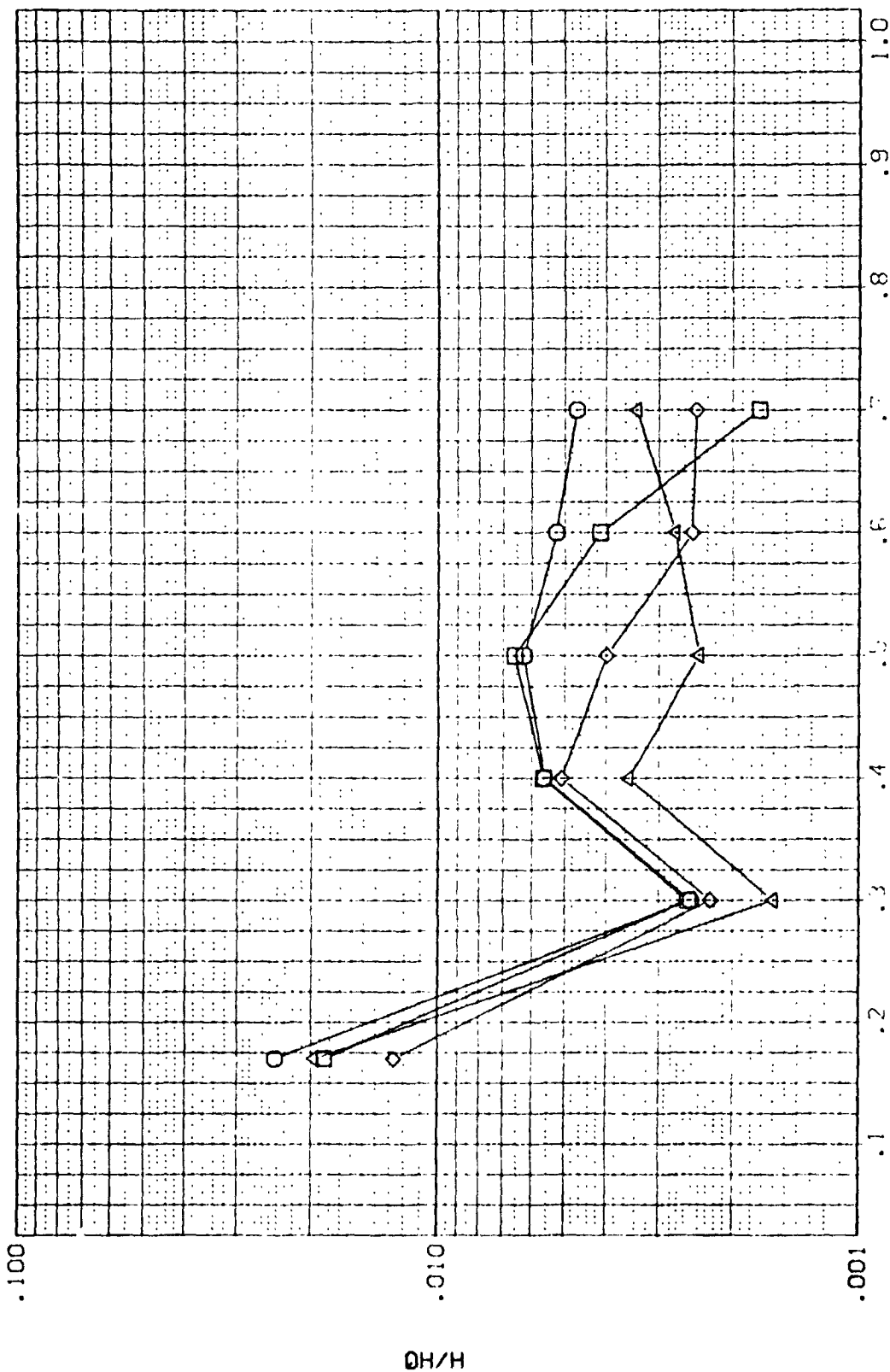


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 6.000 HAW/HT = .850 W.P. = 501.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(R0LS02)
(R0LS03)
(R0LS04)
(R0LS05)

□
◇
△

CH14 B22C7F5M4.7#111 FUSELAGE UPPER SURFACE
CH14 B22C7F5M4.7#111 FUSELAGE UPPER SURFACE
CH14 B22C7F5M4.7#111 FUSELAGE UPPER SURFACE
CH14 B22C7F5M4.7#111 FUSELAGE UPPER SURFACE

ALPHA BETA MACH
20.000 .000 8.000
25.000 .000 8.000
30.000 .000 8.000
35.000 .000 8.000

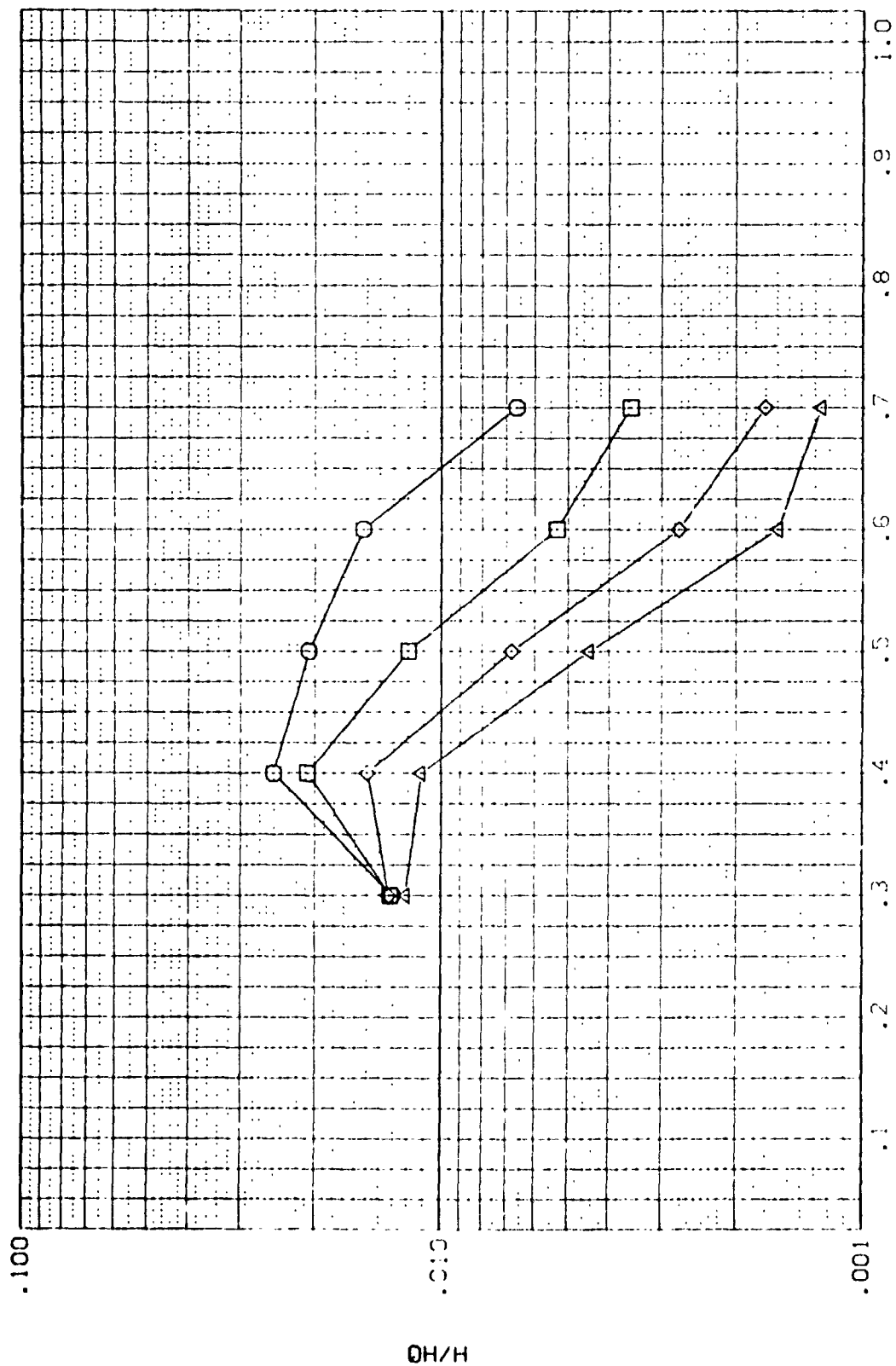


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 6.000 MAW/H = .900 #.P. = 375.000

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (RQLS02) | | CH14 B22C7FSM4V7W1111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (RQLS03) | | CH14 B22C7FSM4V7W1111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (RQLS04) | | CH14 B22C7FSM4V7W1111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (RQLS05) | | CH14 B22C7FSM4V7W1111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

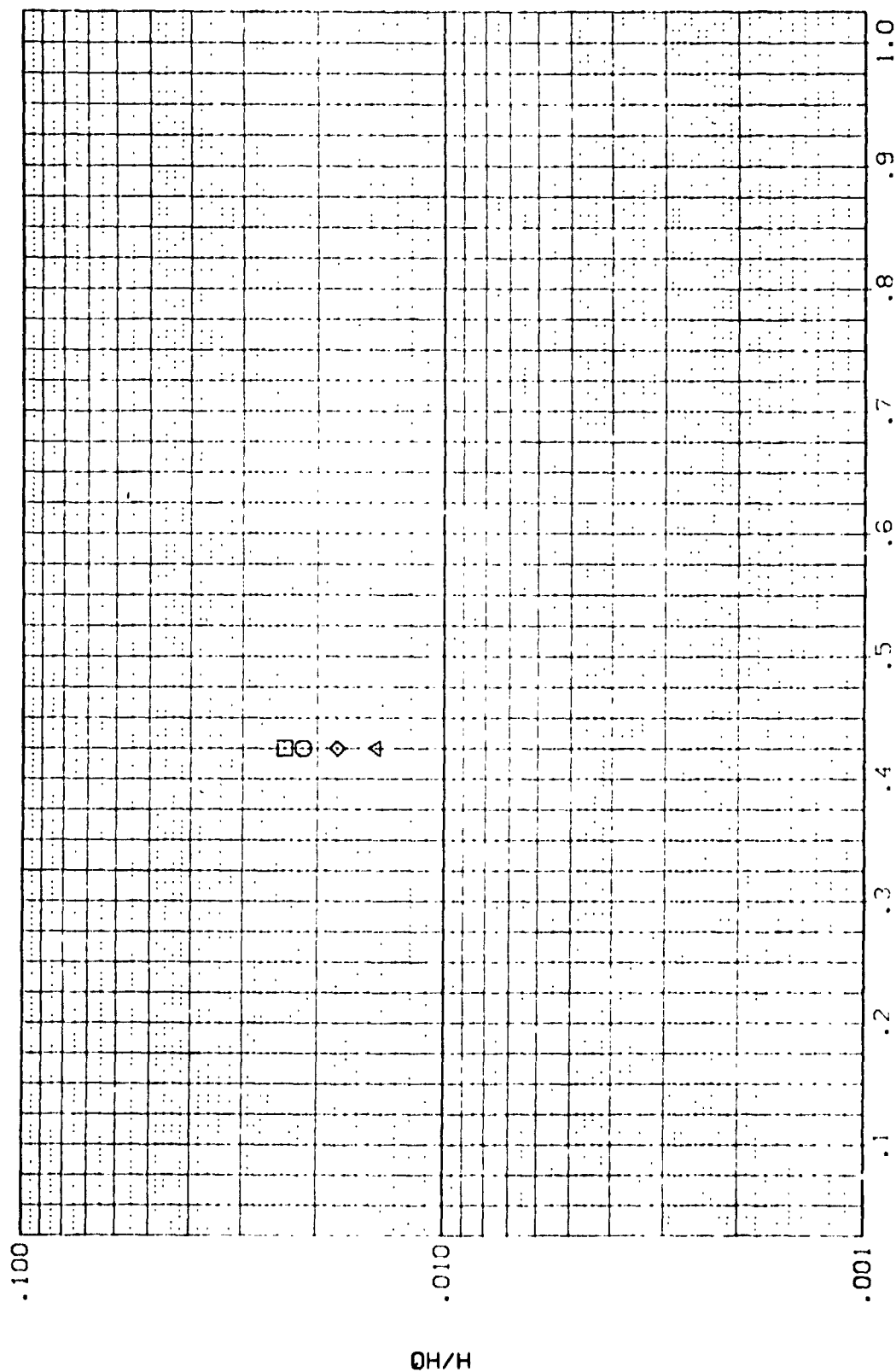


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

R/L = 6.000 HAW/HT = .900 W.P. = 400.000

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|---|--------|------|-------|
| (RQLS02) | ○ | OH14 B22C7FSM4V7#111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (RQLS03) | □ | OH14 B22C7FSM4V7#111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (RQLS04) | △ | OH14 B22C7FSM4V7#111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (RQLS05) | ◇ | OH14 B22C7FSM4V7#111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

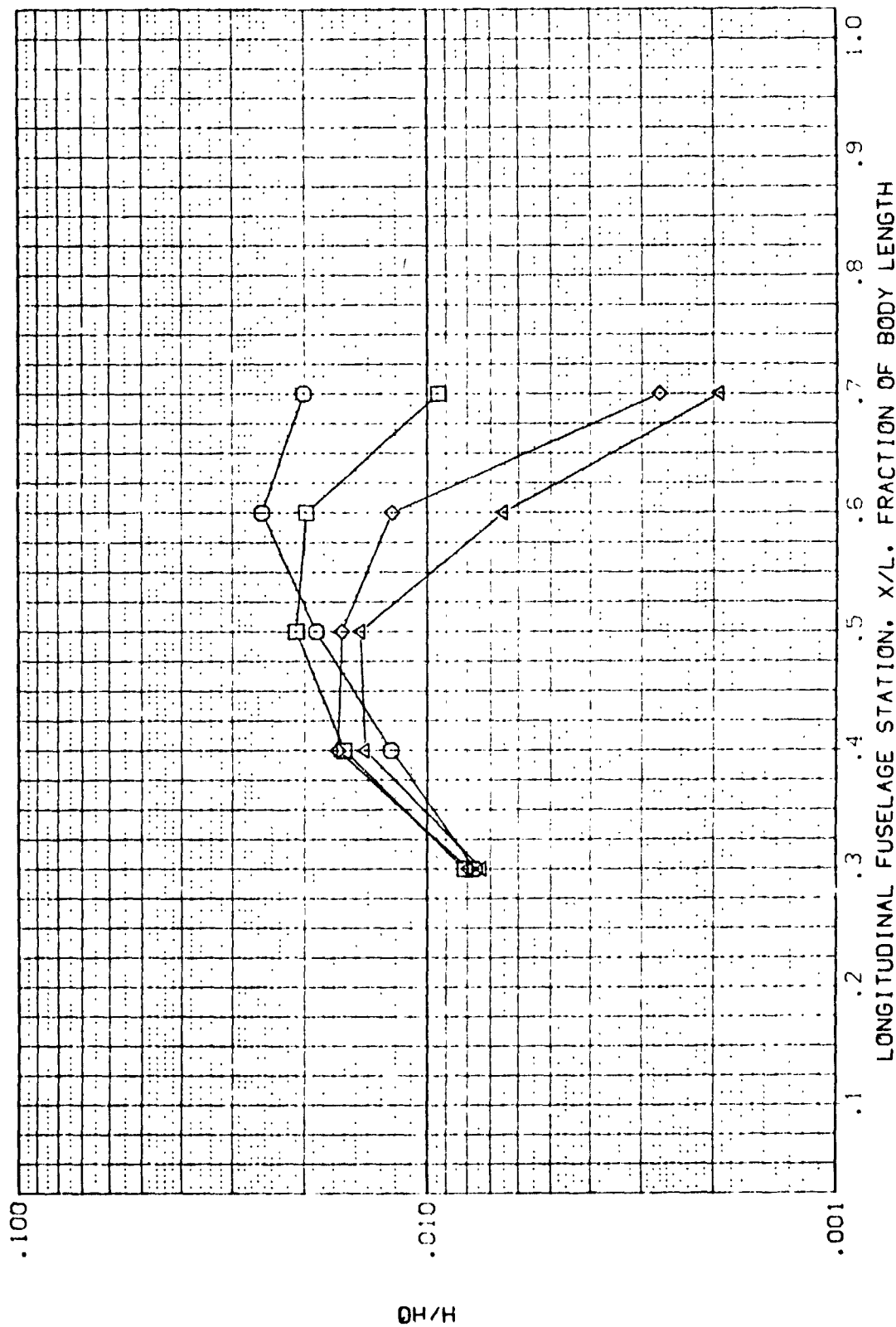
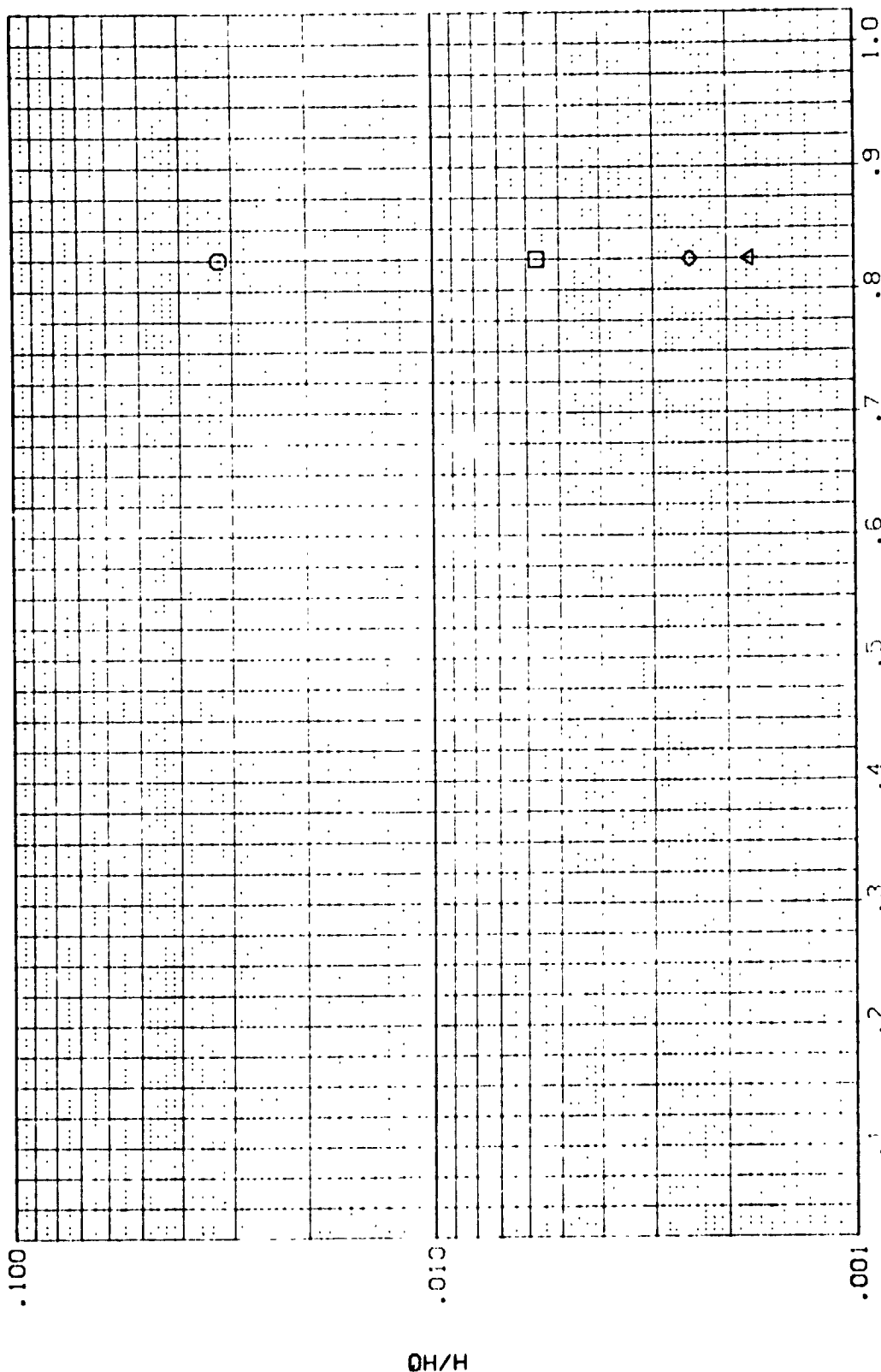


FIG 18 VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 6.000 HAW/HT = .900 W.P. = 425.000

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|-----------|--------|---|--------|------|-------|
| (ROL S02) | □ | CH14 B22C7F5M4V7M111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (ROL S03) | □ | CH14 B22C7F5M4V7M111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (ROL S04) | □ | CH14 B22C7F5M4V7M111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (ROL S05) | ⊗ | CH14 B22C7F5M4V7M111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |



LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH

FIG 18 VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (PCLSC2) | □ | OH:4 B22C7F5M4V7W1111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (PCLSC3) | □ | OH:4 B22C7F5M4V7W1111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (PCLSC4) | ◇ | OH:4 B22C7F5M4V7W1111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (PCLSC5) | △ | OH:4 B22C7F5M4V7W1111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

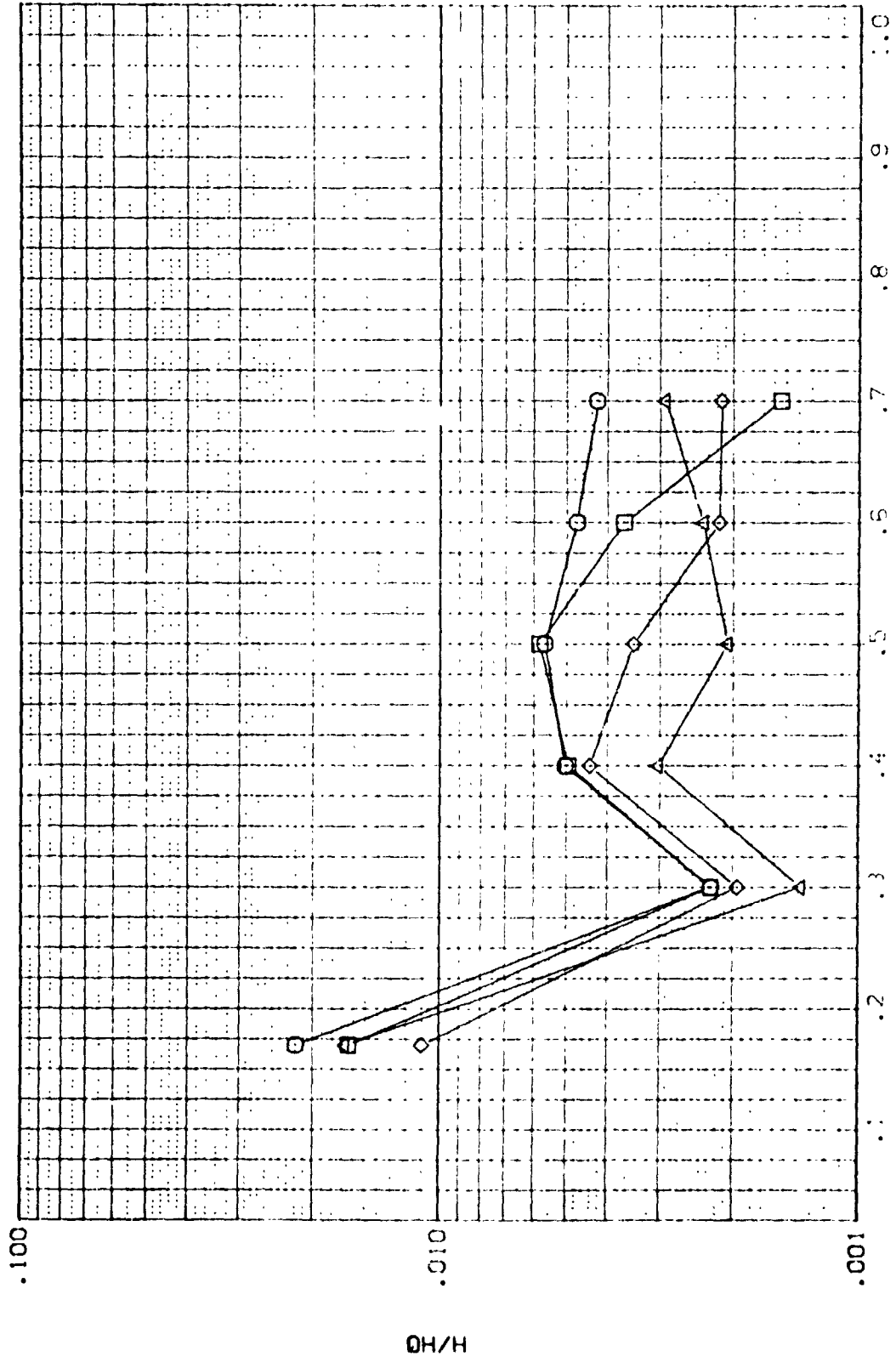


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|---|--------|------|-------|
| (RQLS02) | ○ | CH-4 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (RQLS03) | □ | CH-4 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (RQLS04) | △ | CH-4 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (RQLS05) | ◇ | CH-4 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

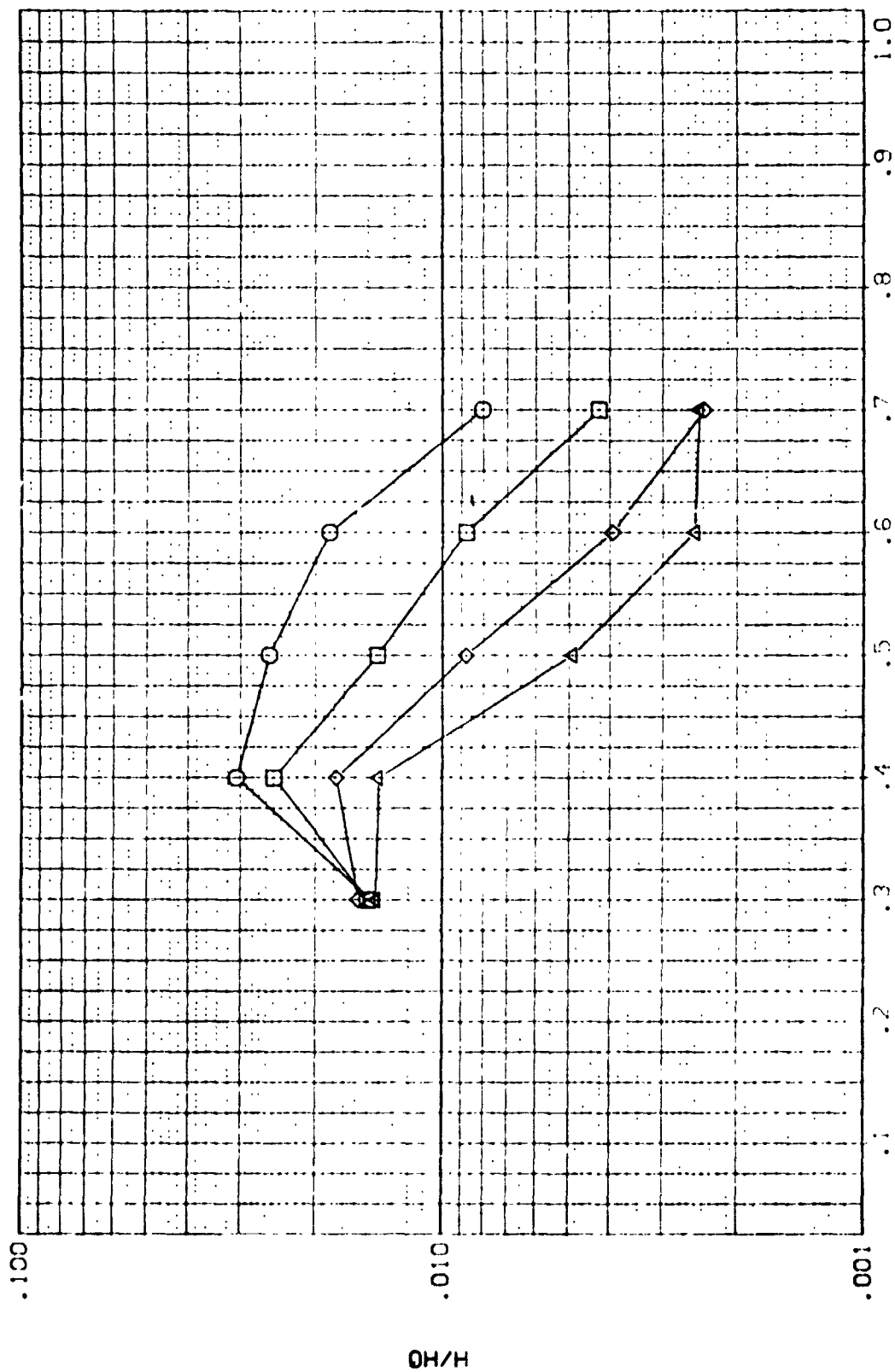


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 8.000 HAWAITE = .850 W.P. = 375.000

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|-----------|---|--------|------|-------|
| (RQLS02) | \square | OH-14 B22CTFS4V7*111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (RQLS03) | \square | OH-14 B22CTFS4V7*111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (RQLS04) | \square | OH-14 B22CTFS4V7*111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (RQLS05) | \square | OH-14 B22CTFS4V7*111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

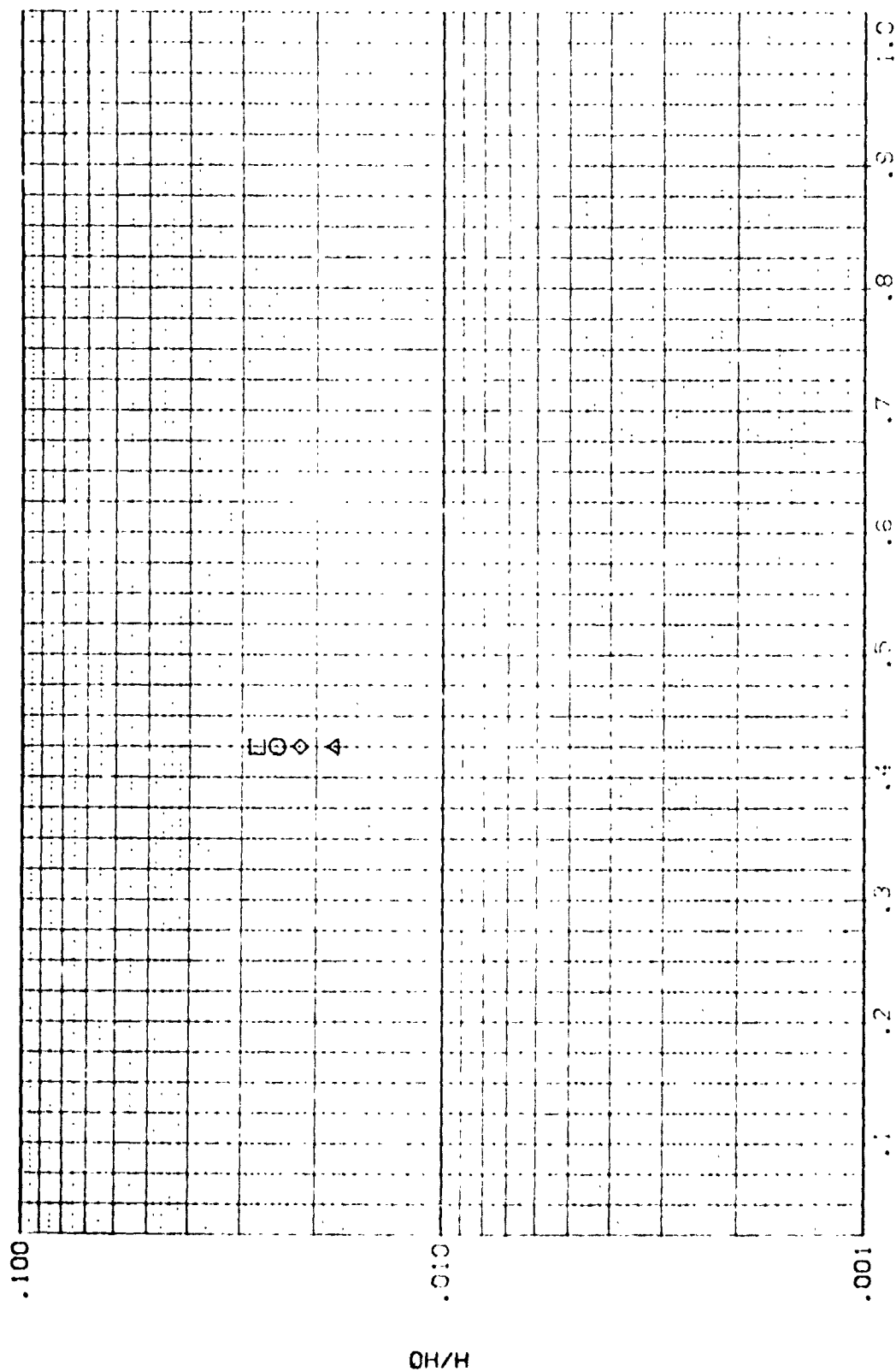


FIG 18 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 8.000 $\frac{R_A}{H} = .850$ W.L. = 400.000 PAGE 284

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (PCL502) | □ | 0414 B22C7FS4V7W111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (PCL503) | □ | 0414 B22C7FS4V7W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (PCL504) | □ | 0411 B22C7FS4V7W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (PCL505) | □ | 0414 B22C7FS4V7W111 FUSELAGE LOWER SURFACE | 35.000 | .000 | 8.000 |

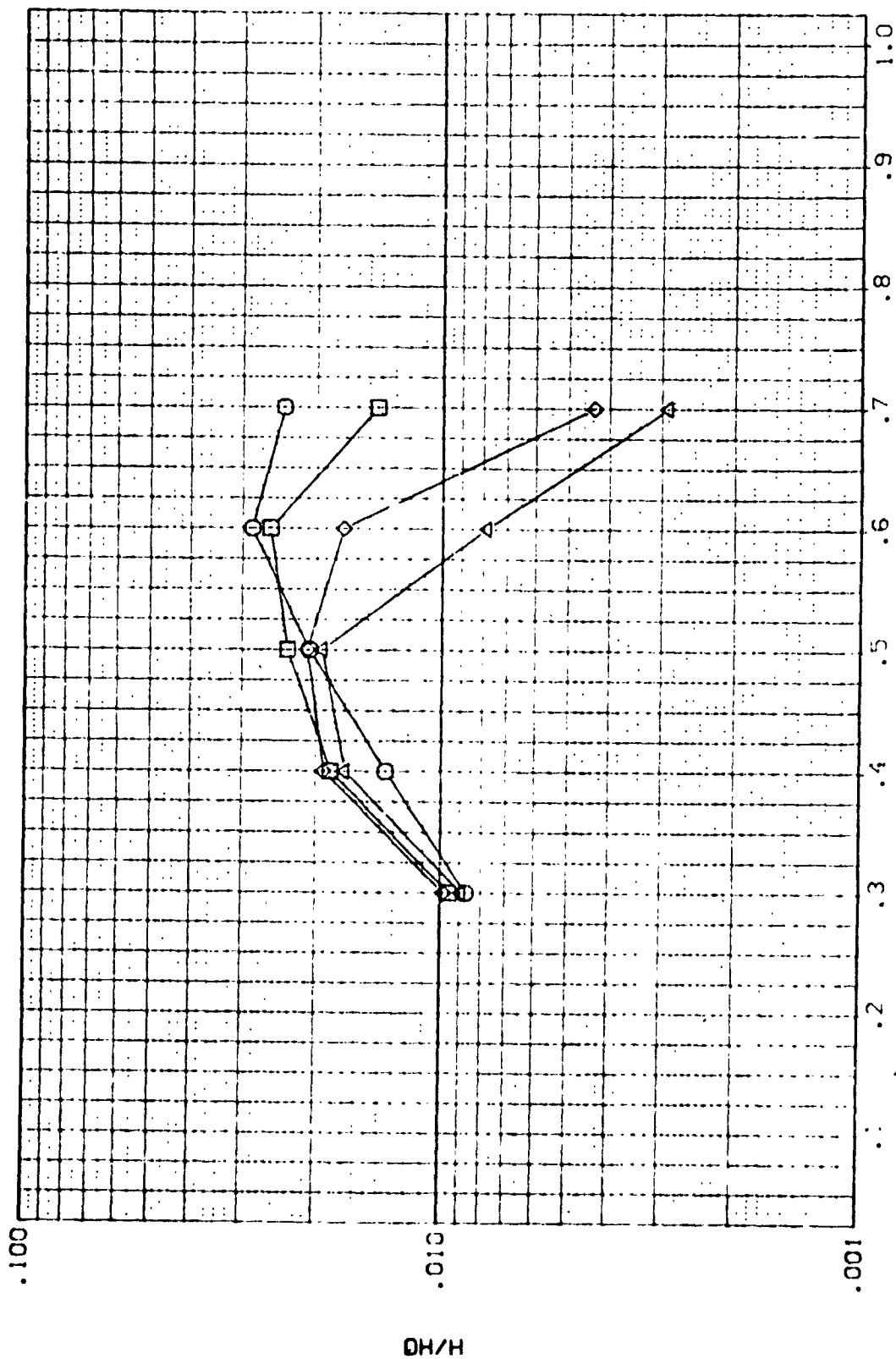


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|-----------|--------|---|--------|------|-------|
| (POL SQ2) | ○ | DM14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (POL SQ3) | □ | DM14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (POL SQ4) | △ | DM14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (POL SQ5) | × | DM15 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

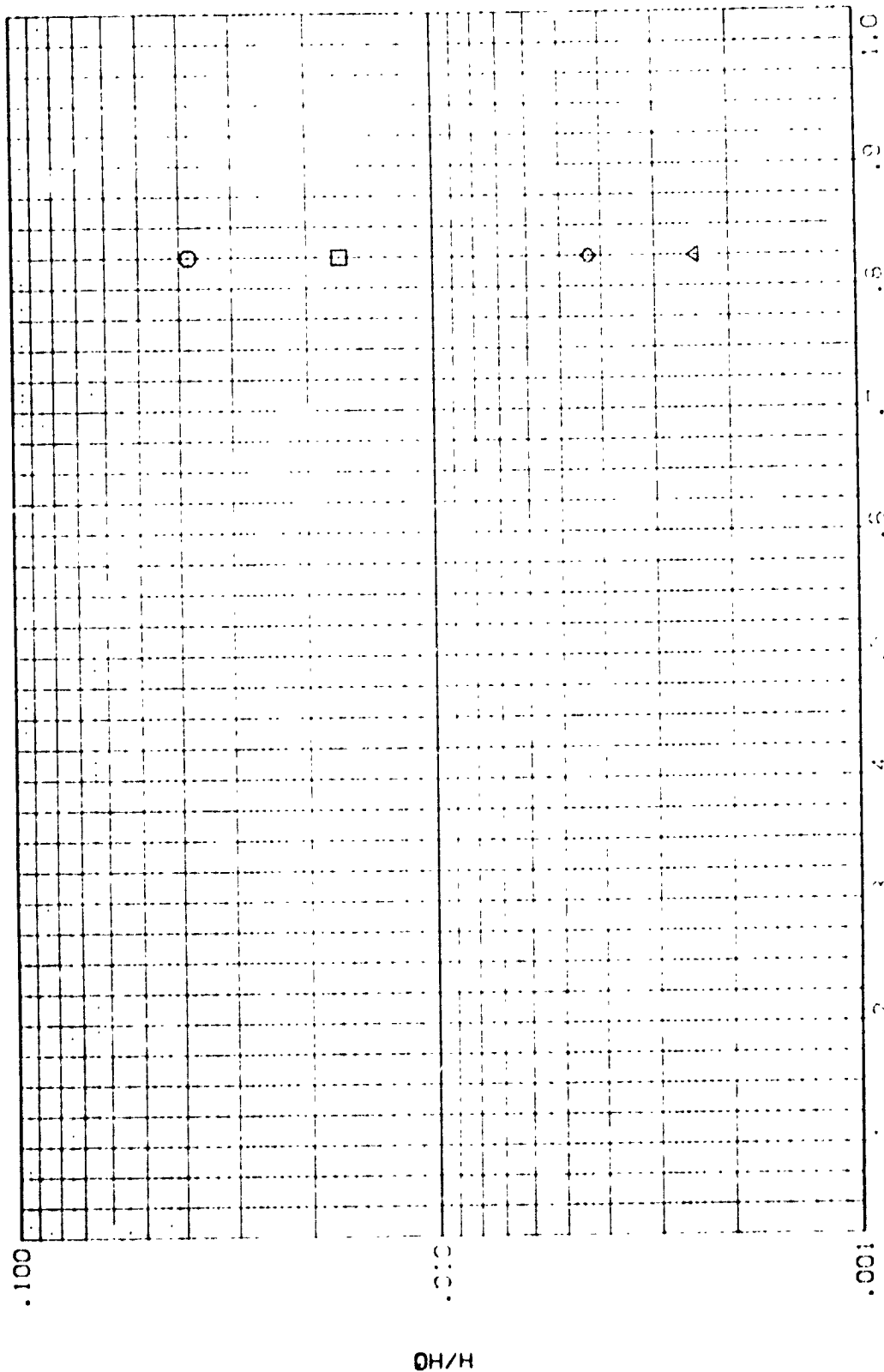


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|---|--------|------|-------|
| (PQLS02) | □ | OH14 B22C7F5M4V7M111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (PQLS03) | △ | OH14 B22C7F5M4V7M111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (PQLS04) | ◇ | OH14 B22C7F5M4V7M111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (PQLS05) | × | OH14 B22C7F5M4V7M111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

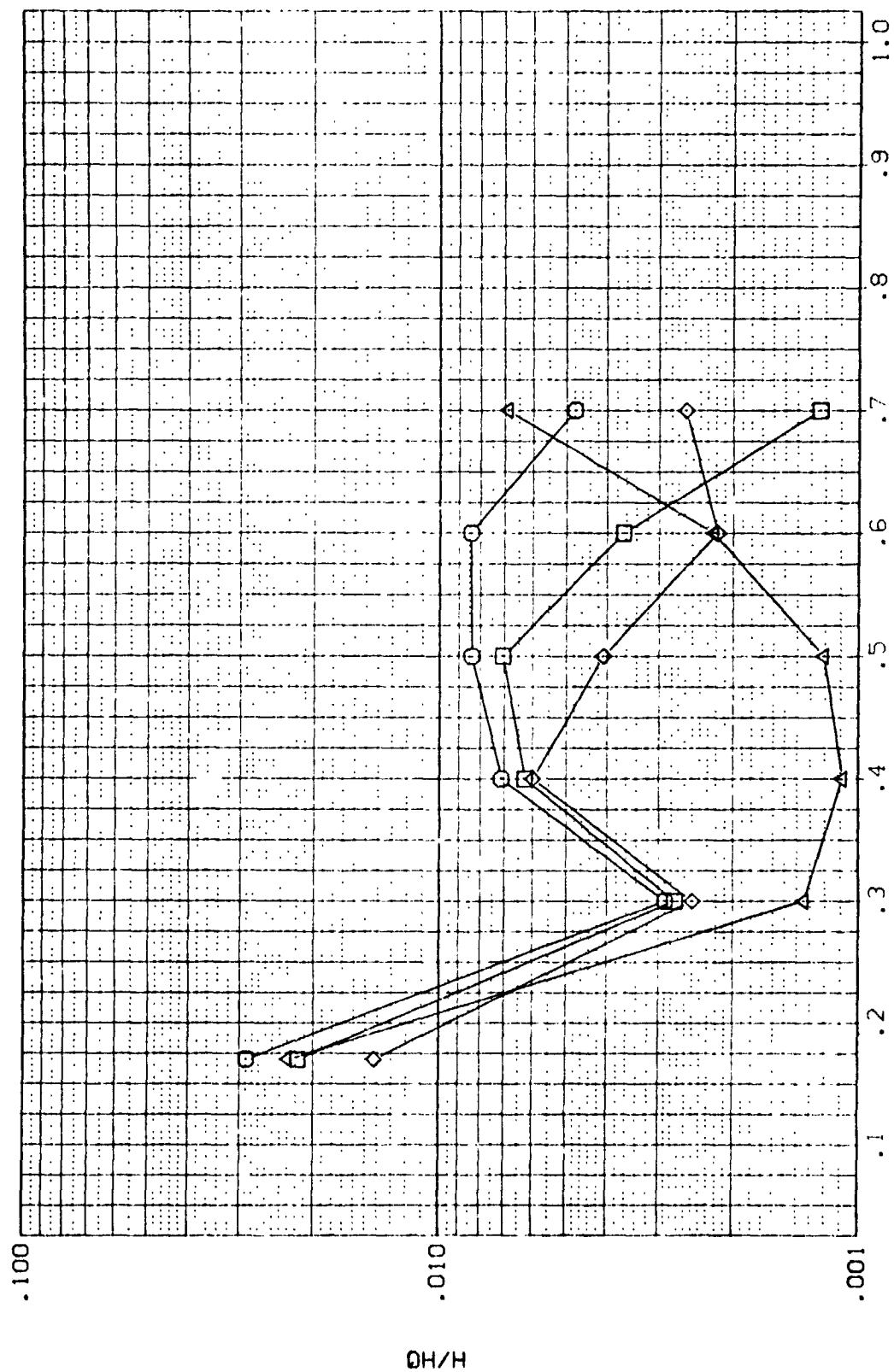


FIG 18 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 8.000 HAW/HT = .850 W.P. = 501.000

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|-----------|--------|--|--------|------|-------|
| (P2, SC2) | ○ | B22C7F5M4V7N111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (R2, SC3) | □ | B22C7F5M4V7N111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (R2, SC4) | △ | B22C7F5M4V7N111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (R2, SC5) | × | B22C7F5M4V7N111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

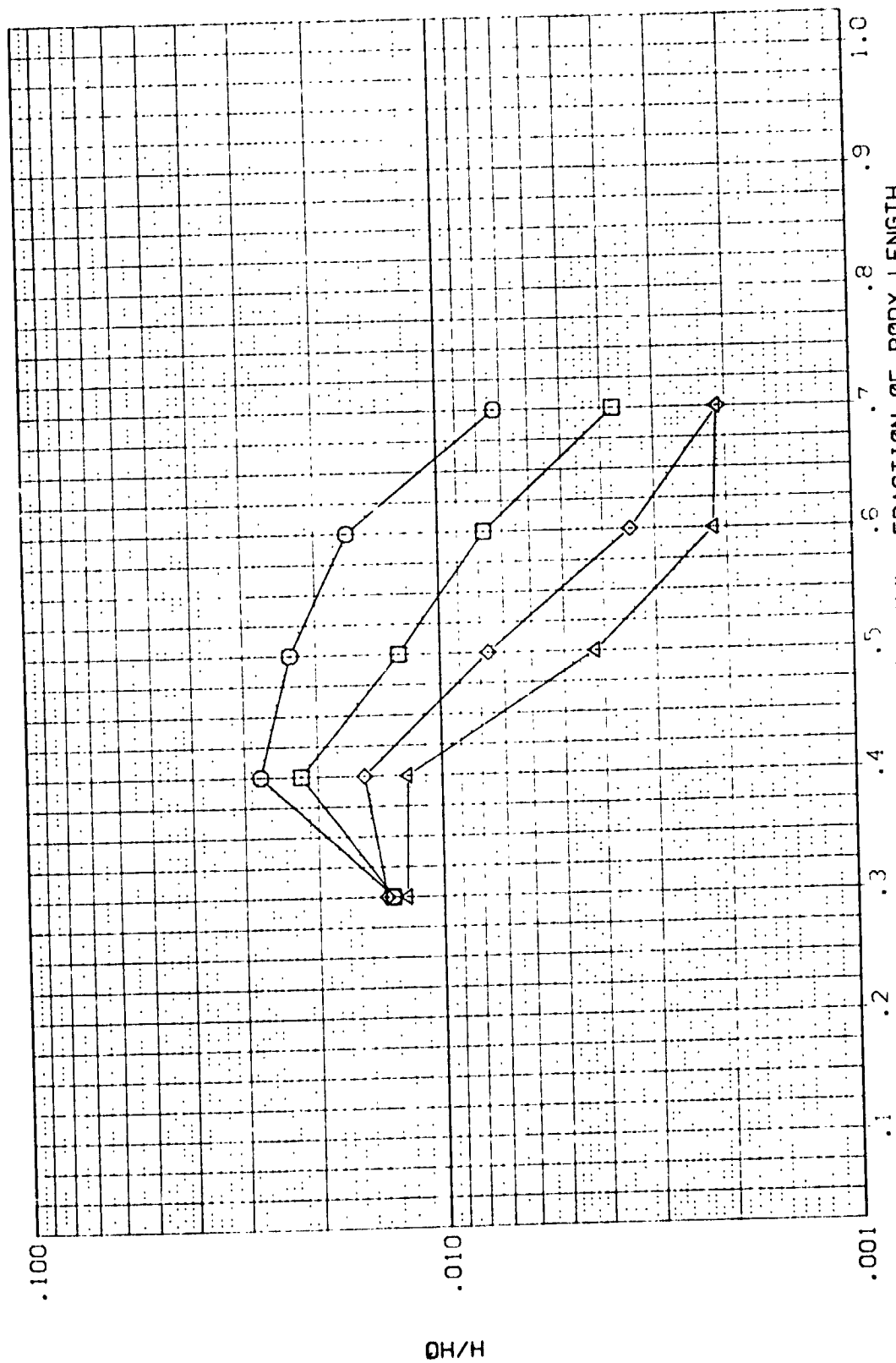


FIG 18 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

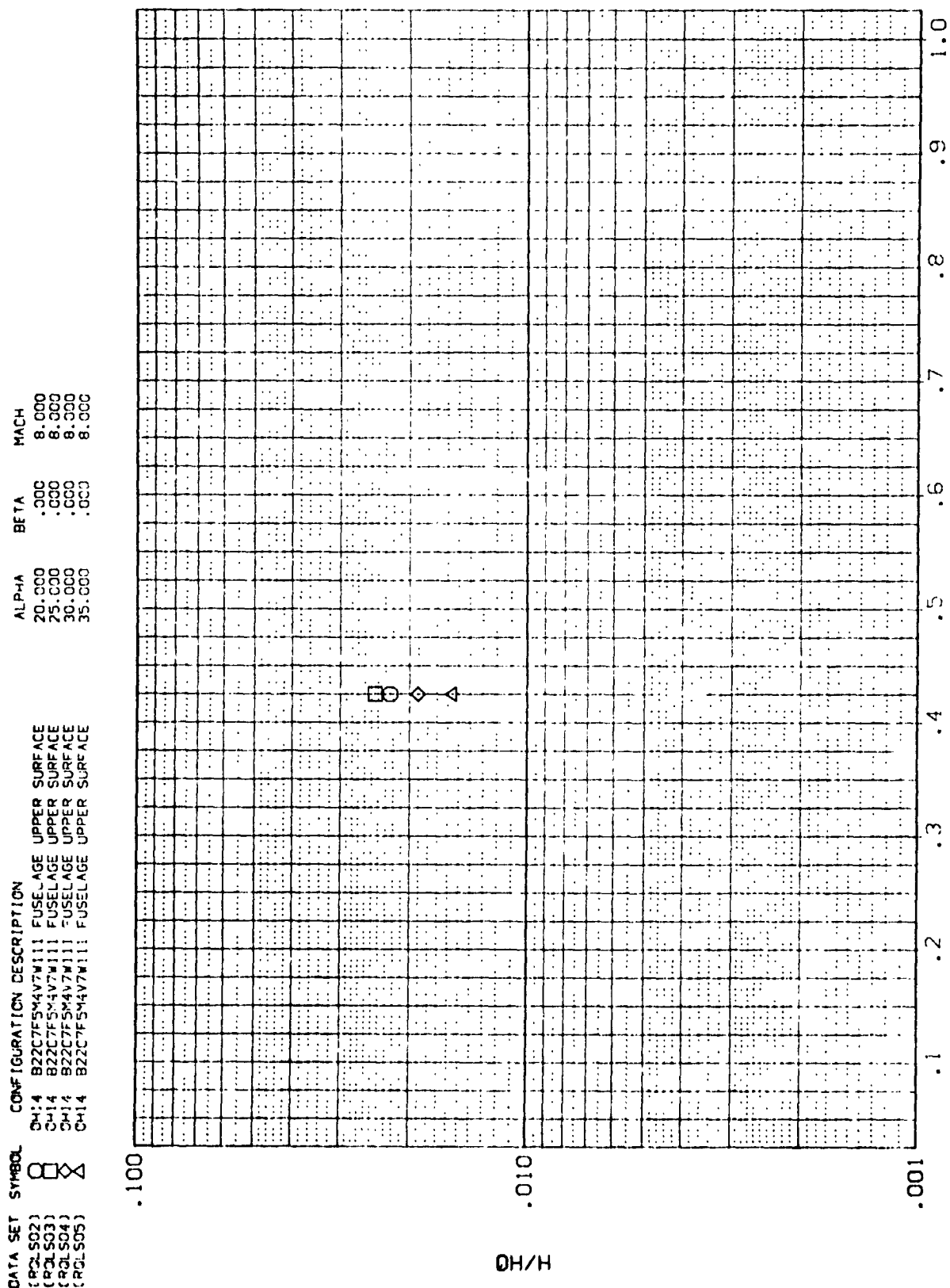


FIG 18

RN/L = 8.000 HAW/HT = .900 W.P. = 400.000

PAGE 289

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|--|--------|------|-------|
| (RQLS02) | ○ | CH14 B22C7F54V74111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (RQLS03) | □ | CH14 B22C7F54V74111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (RQLS04) | △ | CH14 B22C7F54V74111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (RQLS05) | ◇ | CH14 B22C7F54V74111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

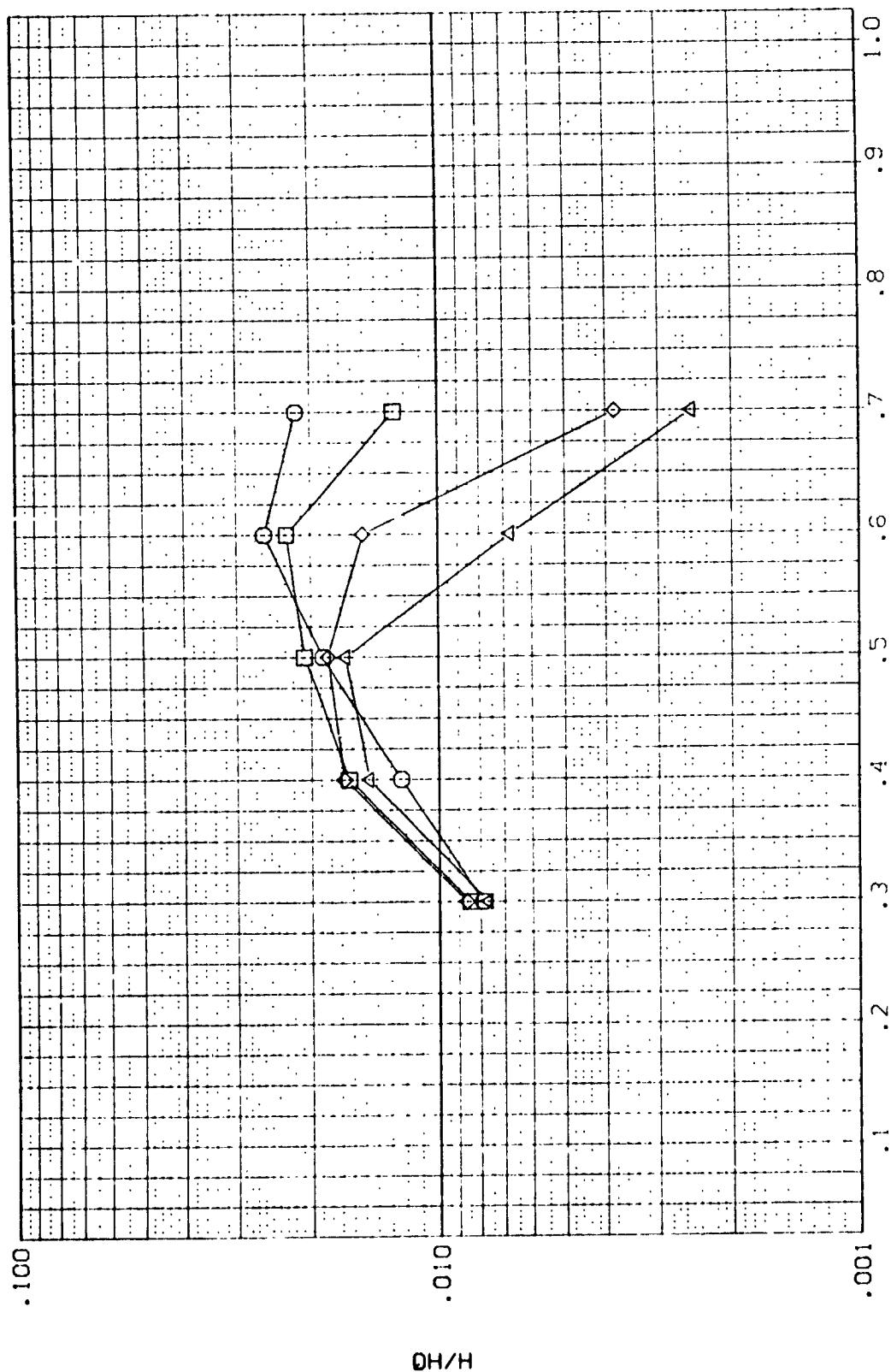


FIG 18 LONGITUDINAL FUSELAGE STATION. X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|---|--------|------|-------|
| (RQ.SC2) | ○ | C-14 B22C7FSM4V7M111 FUSELAGE UPPER SURFACE | 20.000 | .000 | 8.000 |
| (RQ.SC3) | □ | C-14 B22C7FSM4V7M111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (PQ.SC4) | ◇ | C-14 B22C7FSM4V7M111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (RQ.SC5) | △ | C-14 B22C7FSM4V7M111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

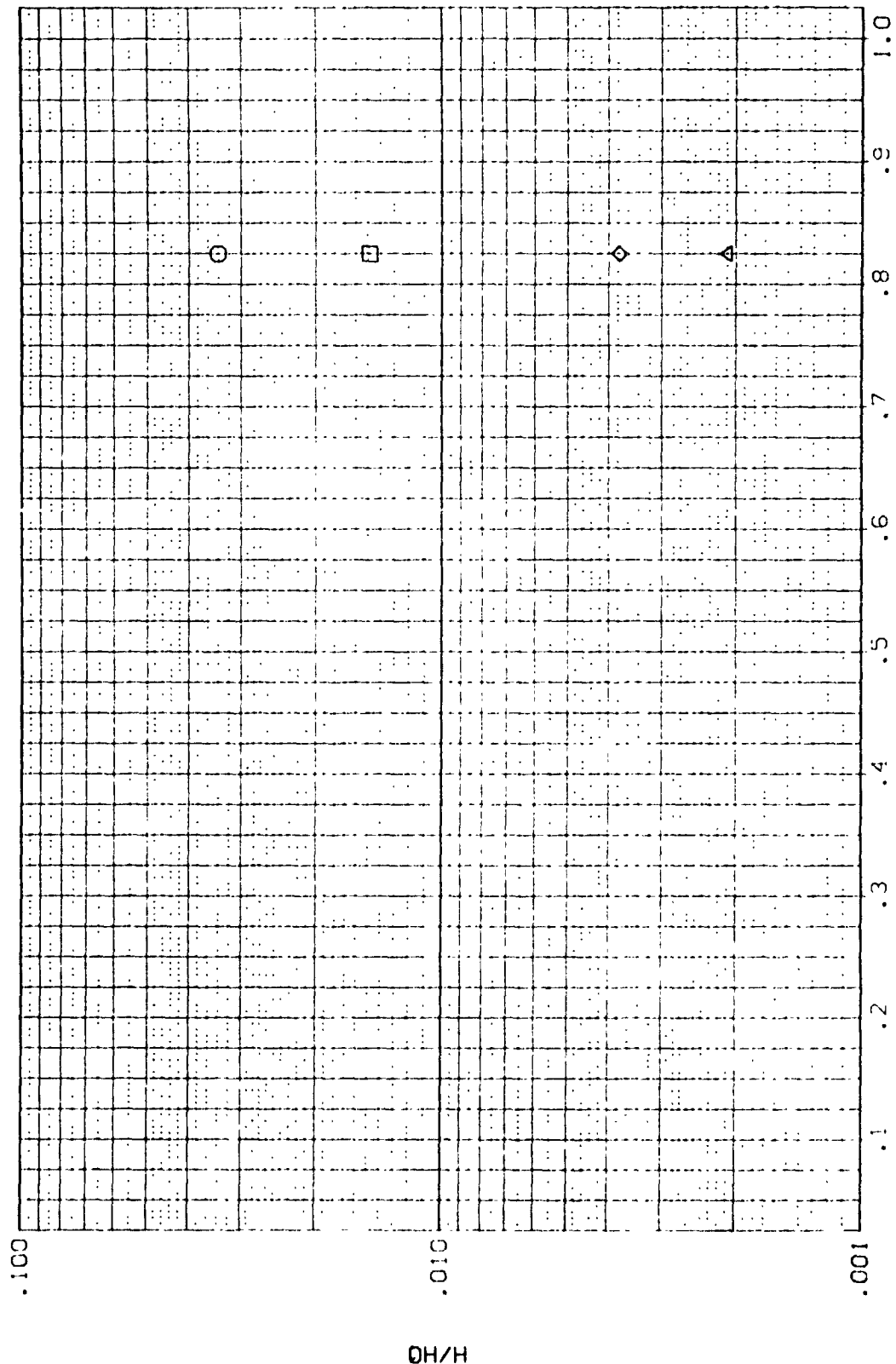


FIG 18

DATA SET SYMBOL CON 'GURATION DESCRIPTION

ALPHA BETA MACH

CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE
CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE
CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE
CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

(RQLS02)
(RQLS03)
(RQLS04)
(RQLS05)

20.000
25.000
30.000
35.000

.000
.000
.000
.000

8.000
8.000
8.000
8.000

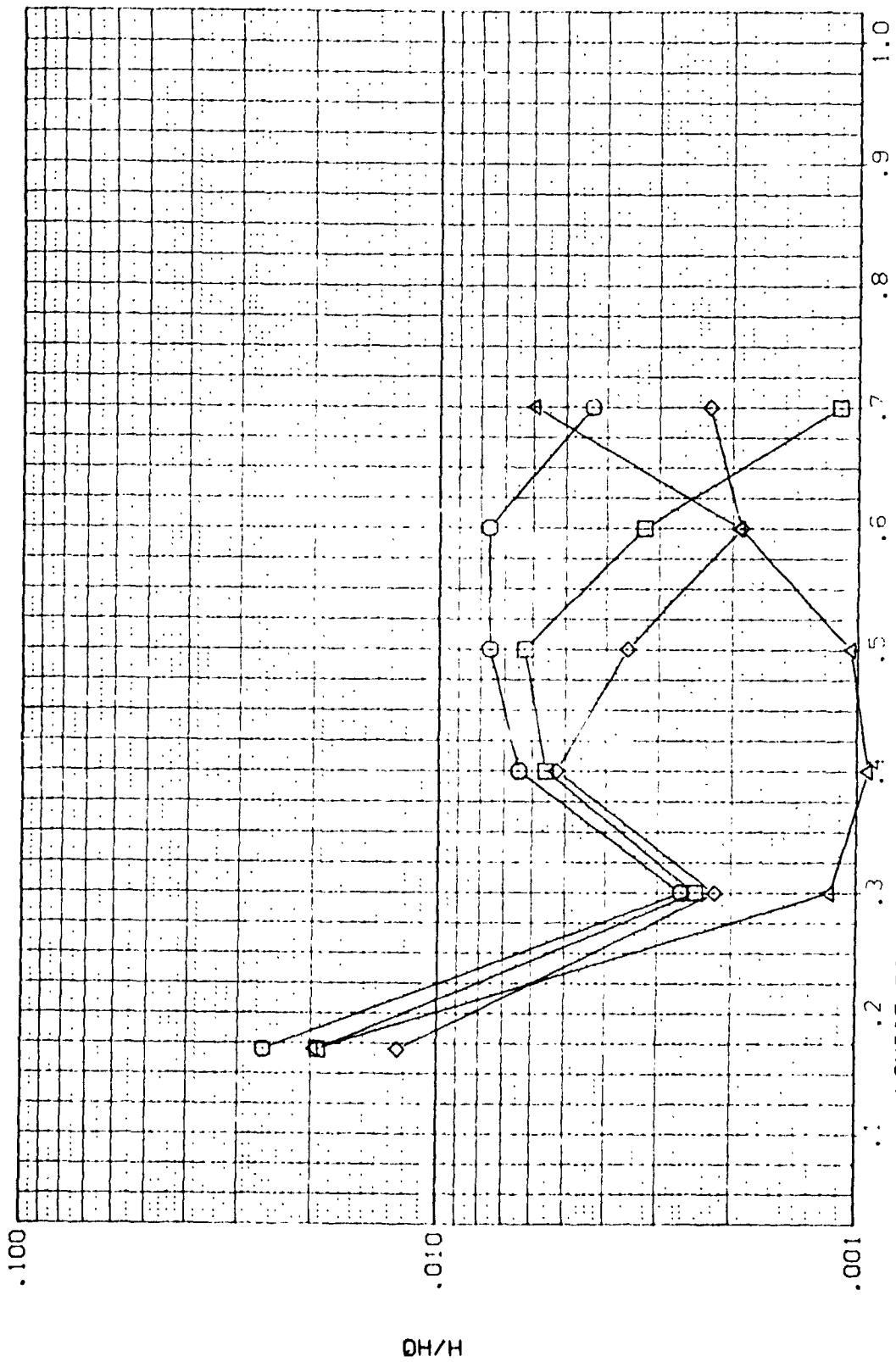


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 8.000 WAW/HT = .900 W.P. = 501.000

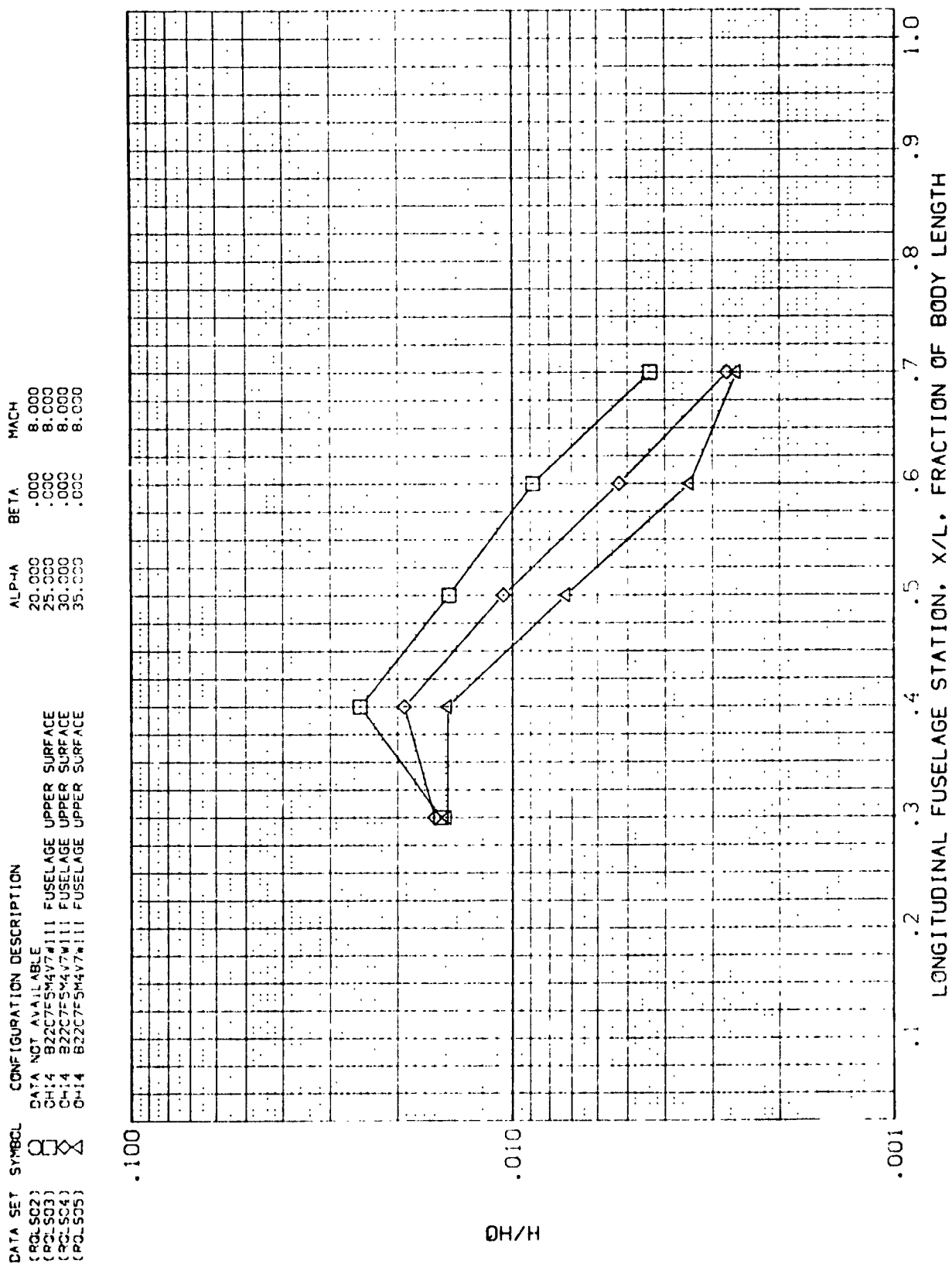


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

| | | | | | |
|----------|--------|---|--------|------|-------|
| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
| (RQ1S02) | □ | DATA NOT AVAILABLE | 20.000 | .000 | 8.000 |
| (RQ1S03) | ◇ | Q114 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (PQ1S04) | × | Q114 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (RQ1S05) | △ | Q114 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

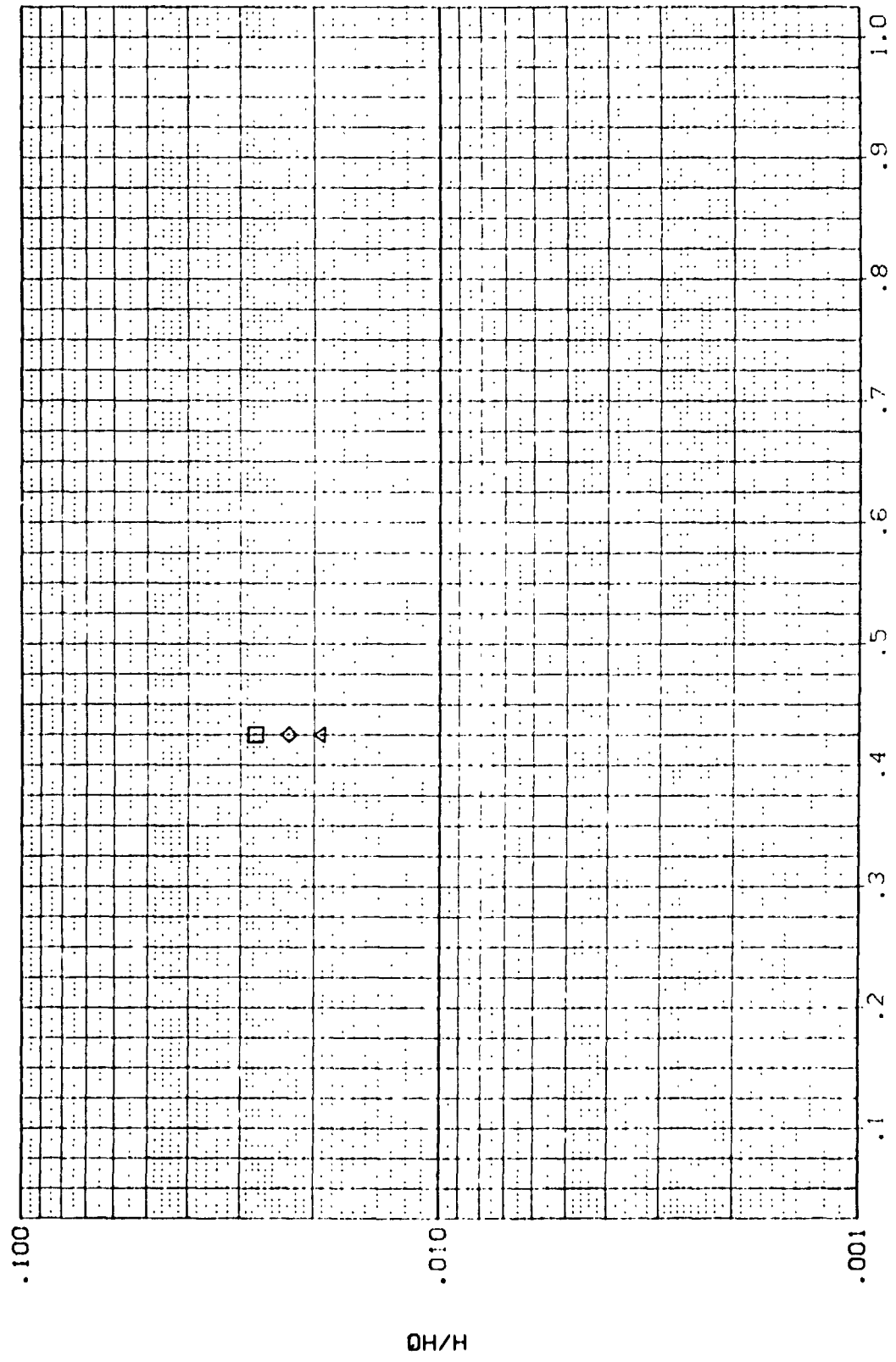


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 10.000 HA/W/HT = .850 W.P. = 400.000 PAGE 294

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RQ.S02) DATA NOT AVAILABLE
 (PQ.S03) CH14 B22C7FS47M111 FUSELAGE UPPER SURFACE
 (PQ.S04) CH14 B22C7FS47M111 FUSELAGE UPPER SURFACE
 (PQ.S05) CH14 B22C7FS47M111 FUSELAGE UPPER SURFACE

ALPHA BETA MACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000

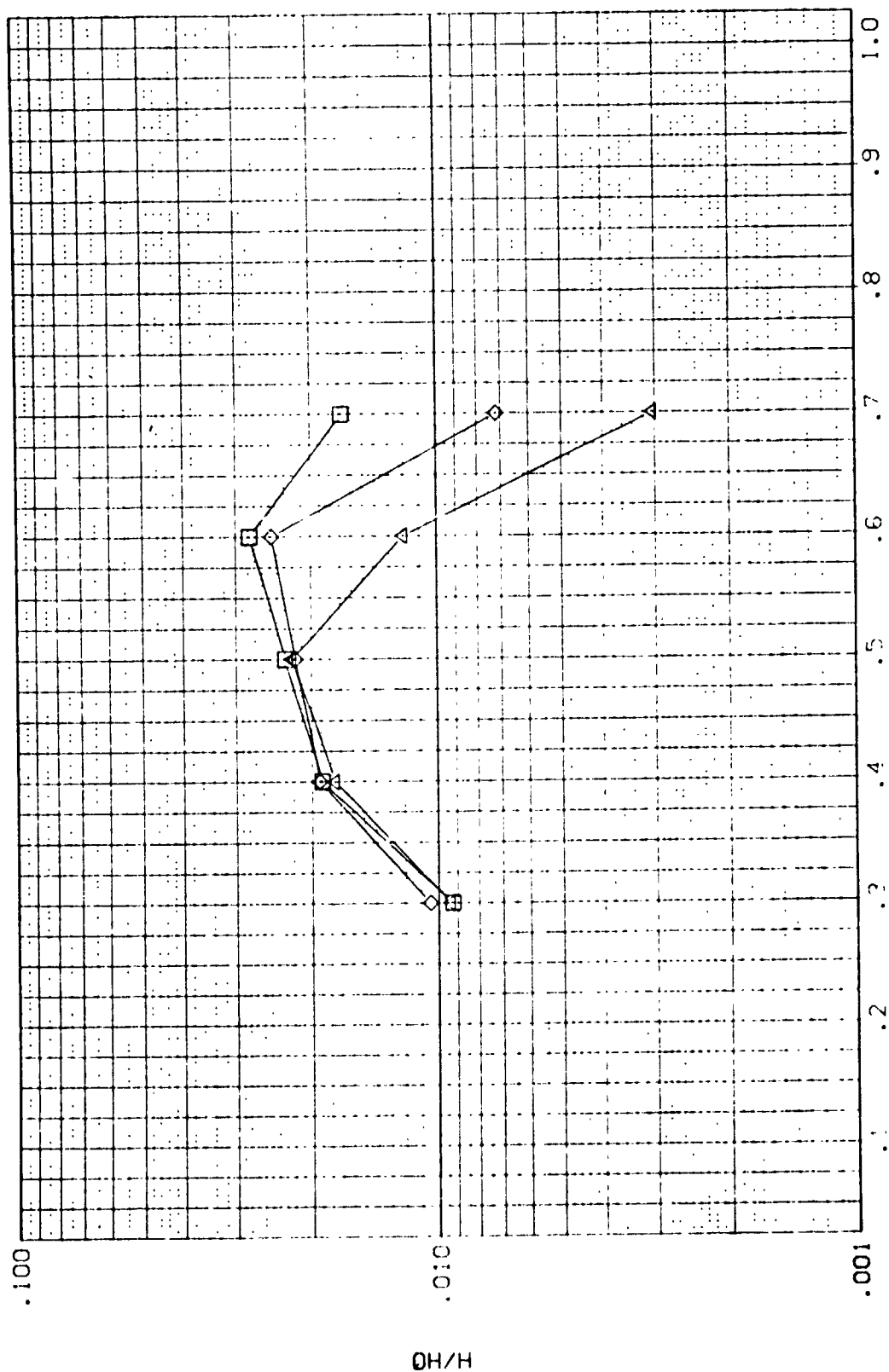


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
 VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RCL502)
(RCL503)
(RCL504)
(RCL505)

DATA NOT AVAILABLE
Q414 B22C7F5M4V7W1111 FUSELAGE UPPER SURFACE
Q414 B22C7F5M4V7W1111 FUSELAGE UPPER SURFACE
Q414 B22C7F5M4V7W1111 FUSELAGE UPPER SURFACE

ALPHA BETA MACH
20.000 .000 8.000
25.000 .000 8.000
30.000 .000 8.000
35.000 .000 8.000

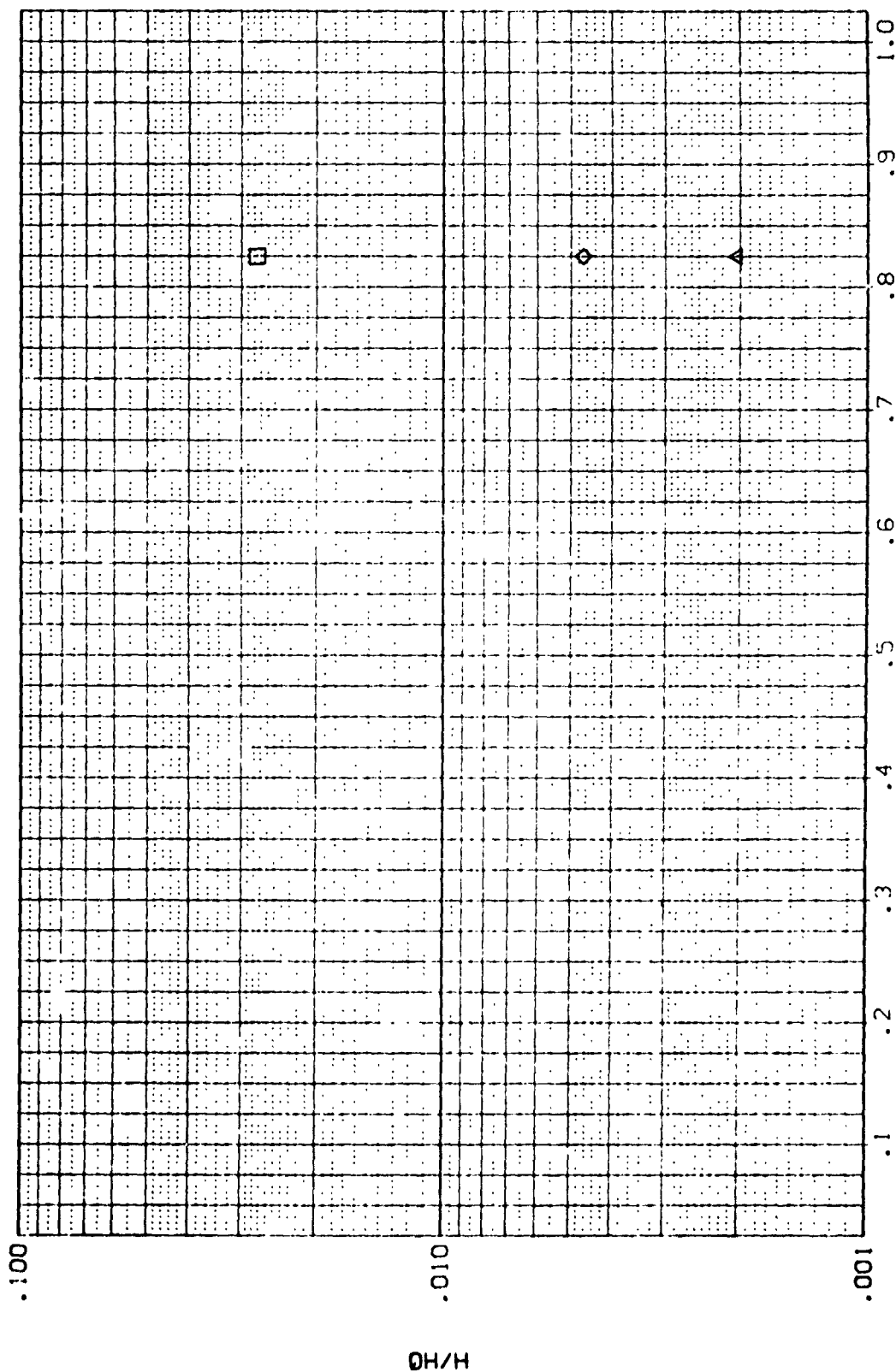


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 10.000 HAW/HT = .850 W.P. = 465.000 PAGE 296

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
|----------|--------|---|--------|------|-------|
| (RCLS02) | □ | DATA NOT AVAILABLE | 20.000 | .000 | 8.000 |
| (RCLS03) | ◇ | Q414 B22CFS4V7W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (RCLS04) | △ | Q414 B22CFS4V7W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (RCLS05) | ◇ | Q414 B22CFS4V7W111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

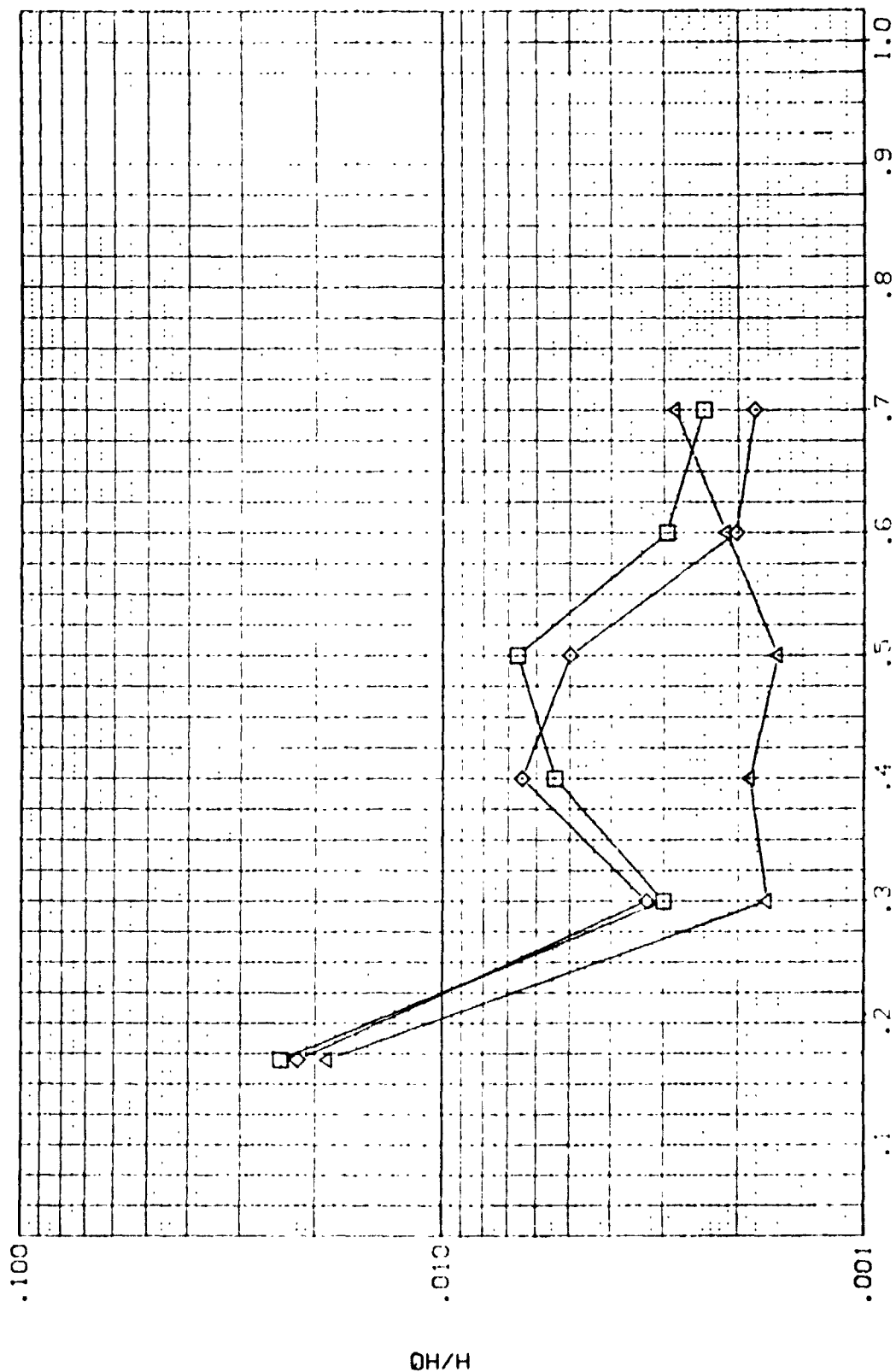


FIG 18 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

| | | | | | |
|-----------|--------|---|--------|------|-------|
| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | BETA | MACH |
| (ROL S02) | □ | DATA NOT AVAILABLE | 20.000 | .000 | 8.000 |
| (ROL S03) | ○ | CH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE | 25.000 | .000 | 8.000 |
| (ROL S04) | △ | CH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE | 30.000 | .000 | 8.000 |
| (ROL S05) | × | CH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE | 35.000 | .000 | 8.000 |

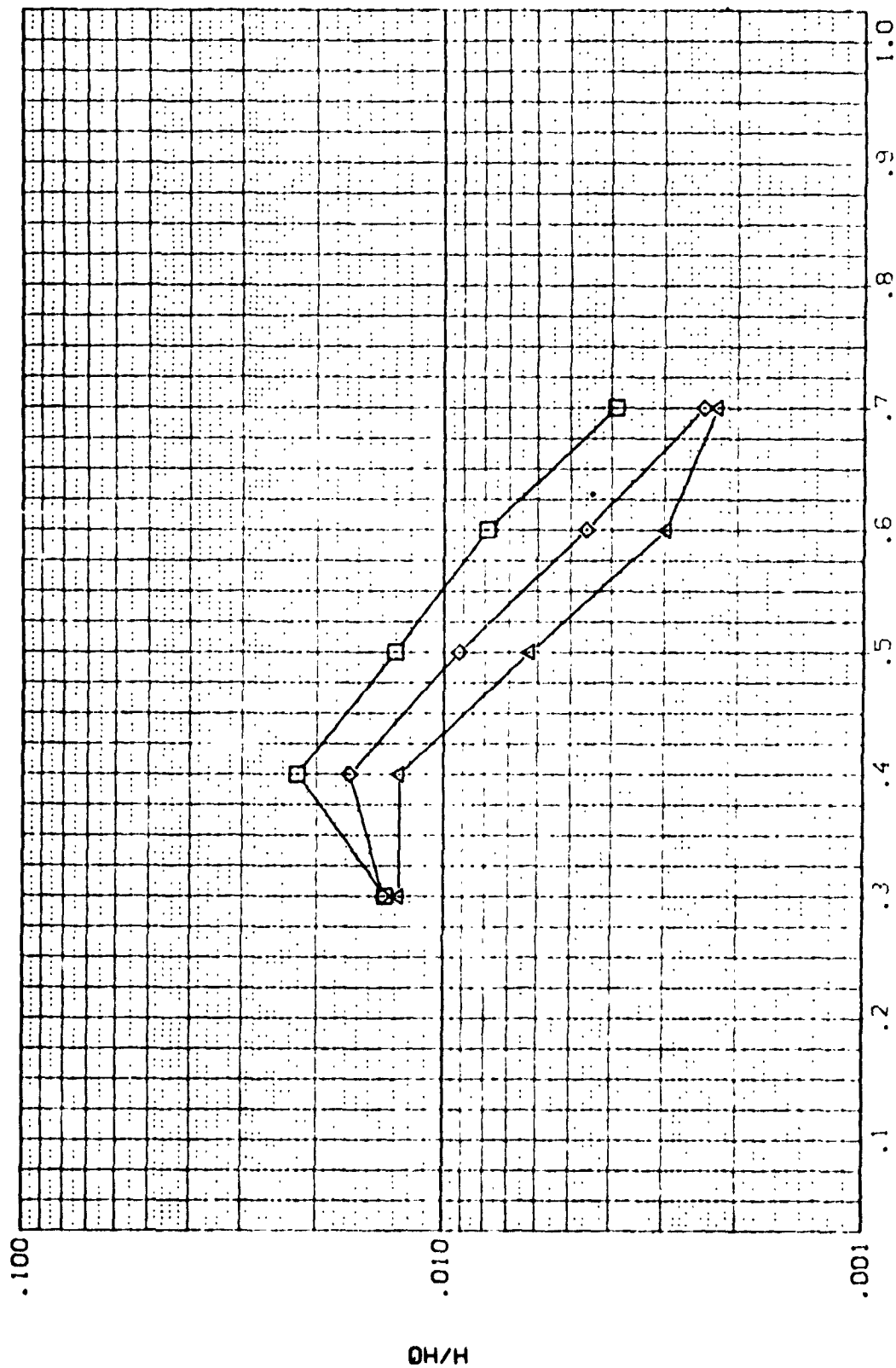
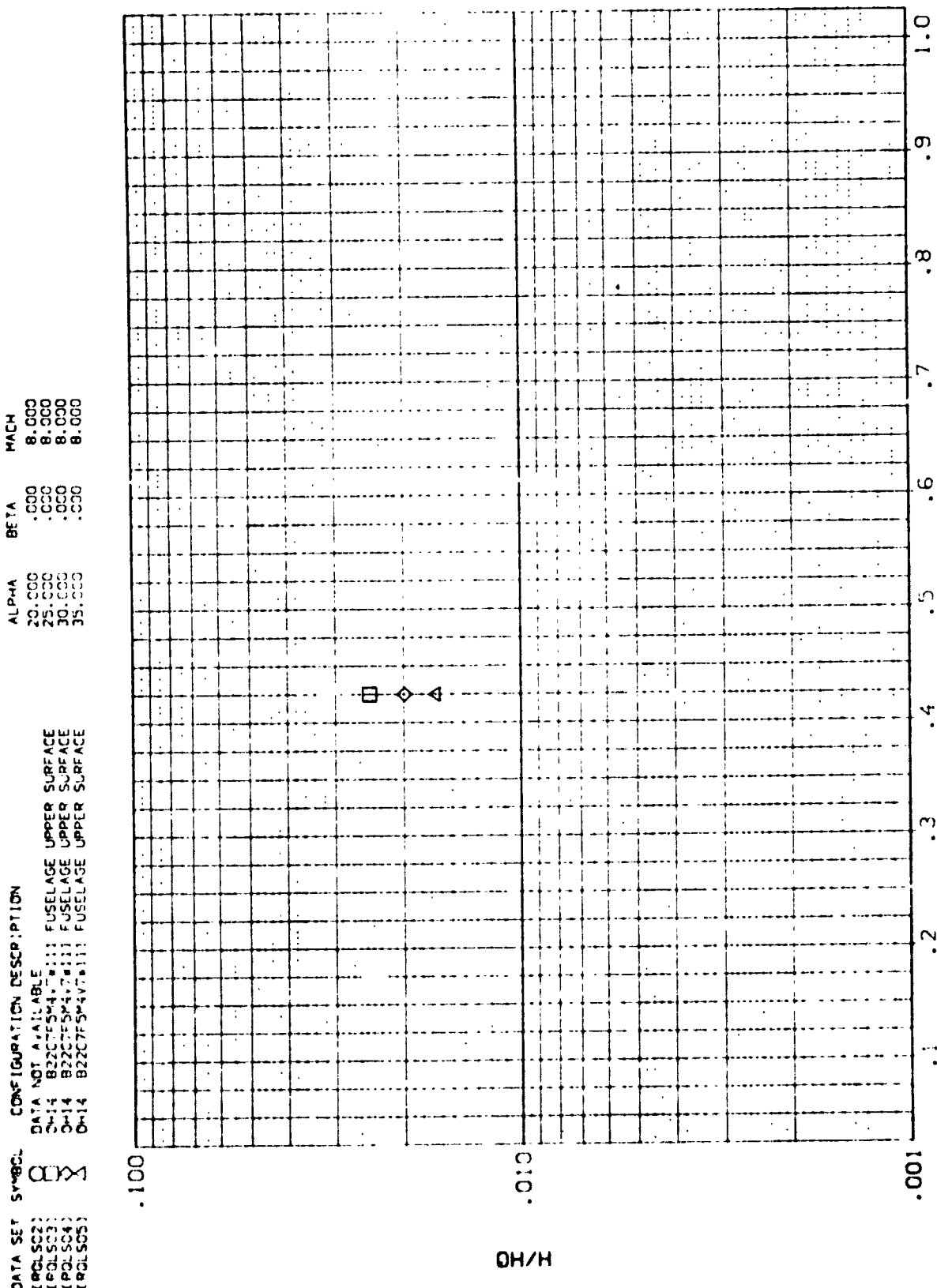


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE



LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH

FIG 18 VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (POLSC2) DATA NOT AVAILABLE
 (POLSC3) OH-14 B22C7F5M4.7*1111 FUSELAGE UPPER SURFACE
 (POLSC4) OH-14 B22C7F5M4.7*1111 FUSELAGE UPPER SURFACE
 (POLSC5) OH-14 B22C7F5M4.7*1111 FUSELAGE UPPER SURFACE

ALPHA BETA MACH

20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(POL 502)
(POL 503)
(POL 504)
(POL 505)

DATA NOT AVAILABLE
0-14 B22C7F54V7#111 FUSELAGE UPPER SURFACE
0-14 B22C7F54V7#111 FUSELAGE UPPER SURFACE
0-14 B22C7F54V7#111 FUSELAGE UPPER SURFACE

ALPHA BETA MACH
20.000 .000 8.000
25.000 .000 8.000
30.000 .000 8.000
35.000 .000 8.000

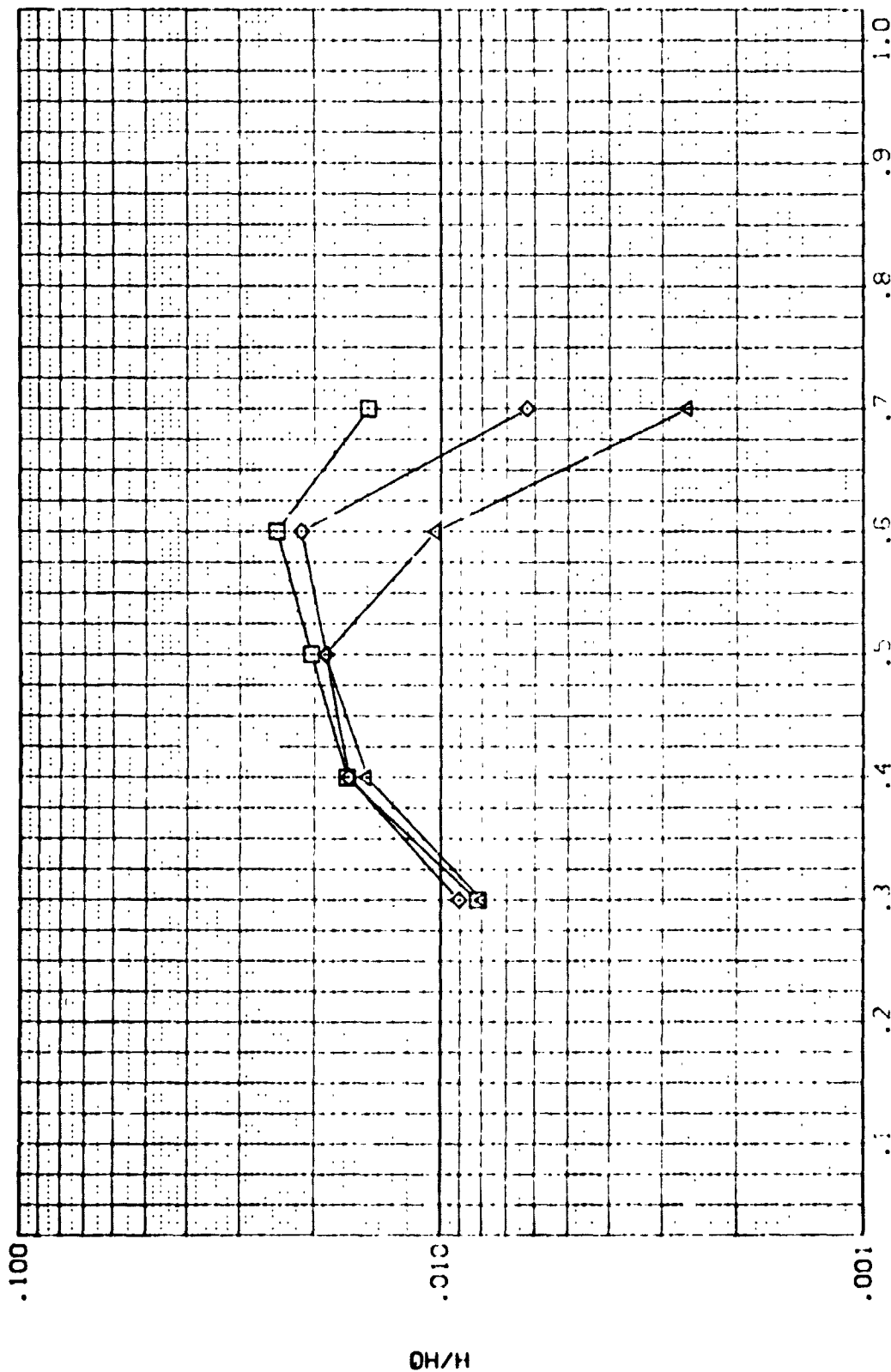






FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 10.000 HAW/HIT = .900 W.P. = 425.000 PAGE 300

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(PQLS02)  DATA NOT AVAILABLE
(PQLS03)  CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE
(PQLS04)  CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE
(PQLS05)  CH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

ALPHA BETA MACH
20.000 .000 8.000
25.000 .000 8.000
30.000 .000 8.000
35.000 .000 8.000

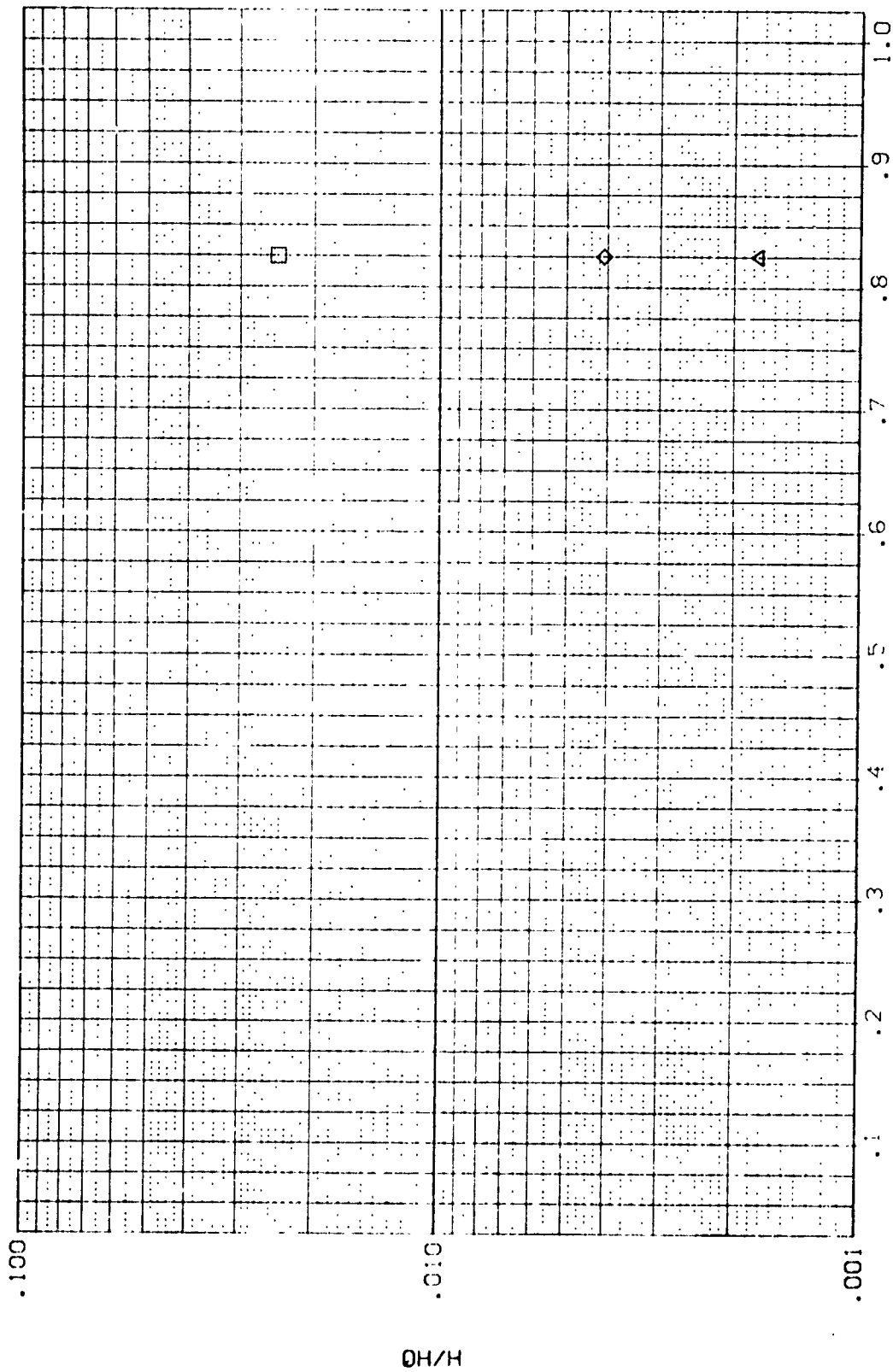


FIG 18 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 10.000

HAW/HT = .900 W.P. = 465.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RQLS02) DATA NOT AVAILABLE
 (RQLS03) CH14 B22C7F5M4V7M111 FUSELAGE UPPER SURF
 (RQLS04) CH14 B22C7F5M4V7M111 FUSELAGE UPPER SURFACE
 (RQLS05) CH14 B22C7F5M4V7M111 FUSELAGE UPPER SURFACE

ALPHA BETA MACH
 20.000 .000 8.000
 25.000 .000 8.000
 30.000 .000 8.000
 35.000 .000 8.000

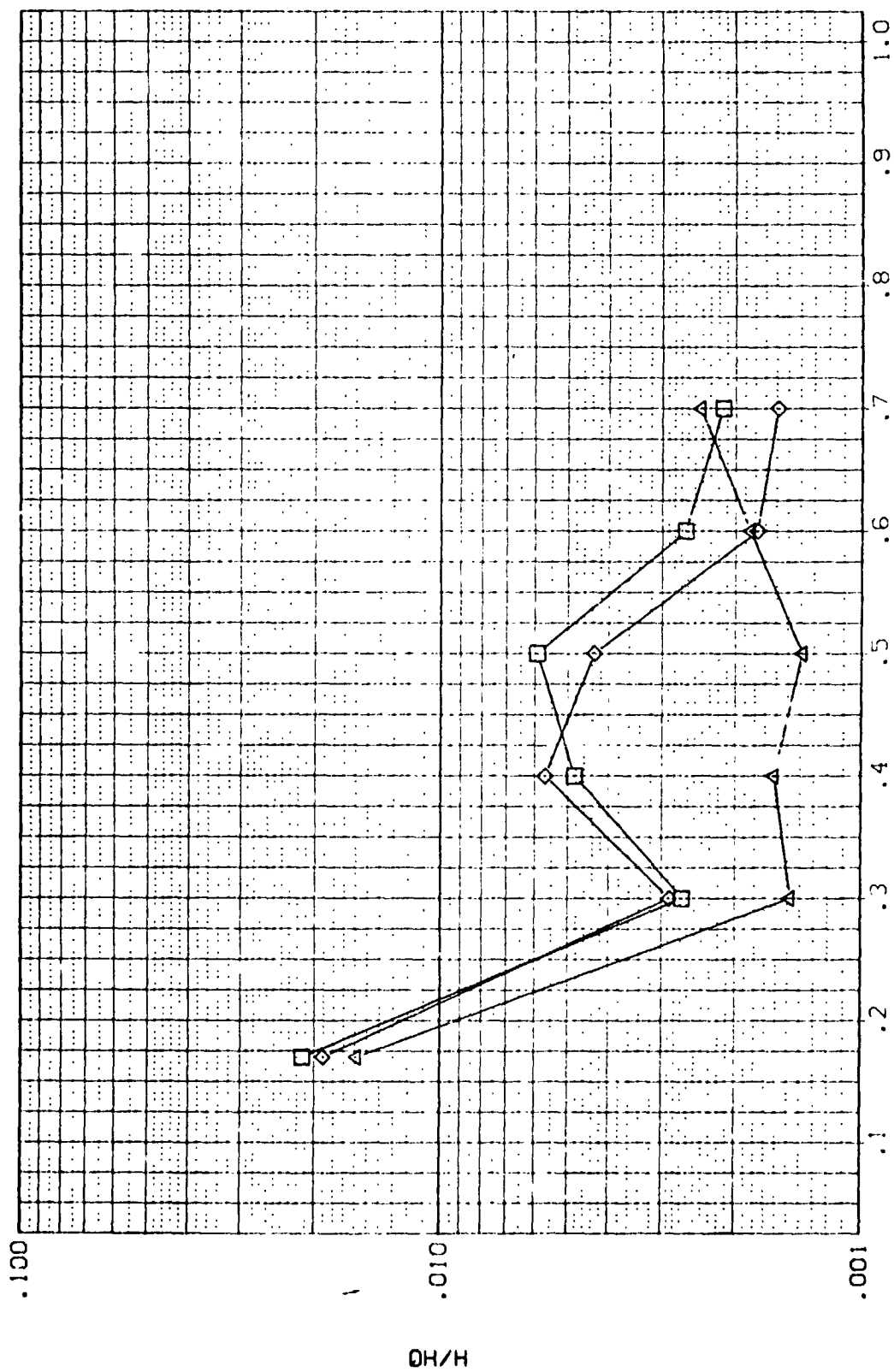


FIG 18 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
 VARIATION WITH ANGLE OF ATTACK ON FUSELAGE UPPER SURFACE

RN/L = 10.000 HAW/HT = .900 W.P. = 501.000

(ROLB02) OH14 B22C7FSM4V7W111 FUSELAGE LOWER SURFACE

SYMBOL R/V/L
 1.000
 3.000
 6.000
 8.000

B.P. .000
 HAV/HT .350

PARAMETRIC VALUES
 ALPHA MACH
 20.000 8.000
 .000

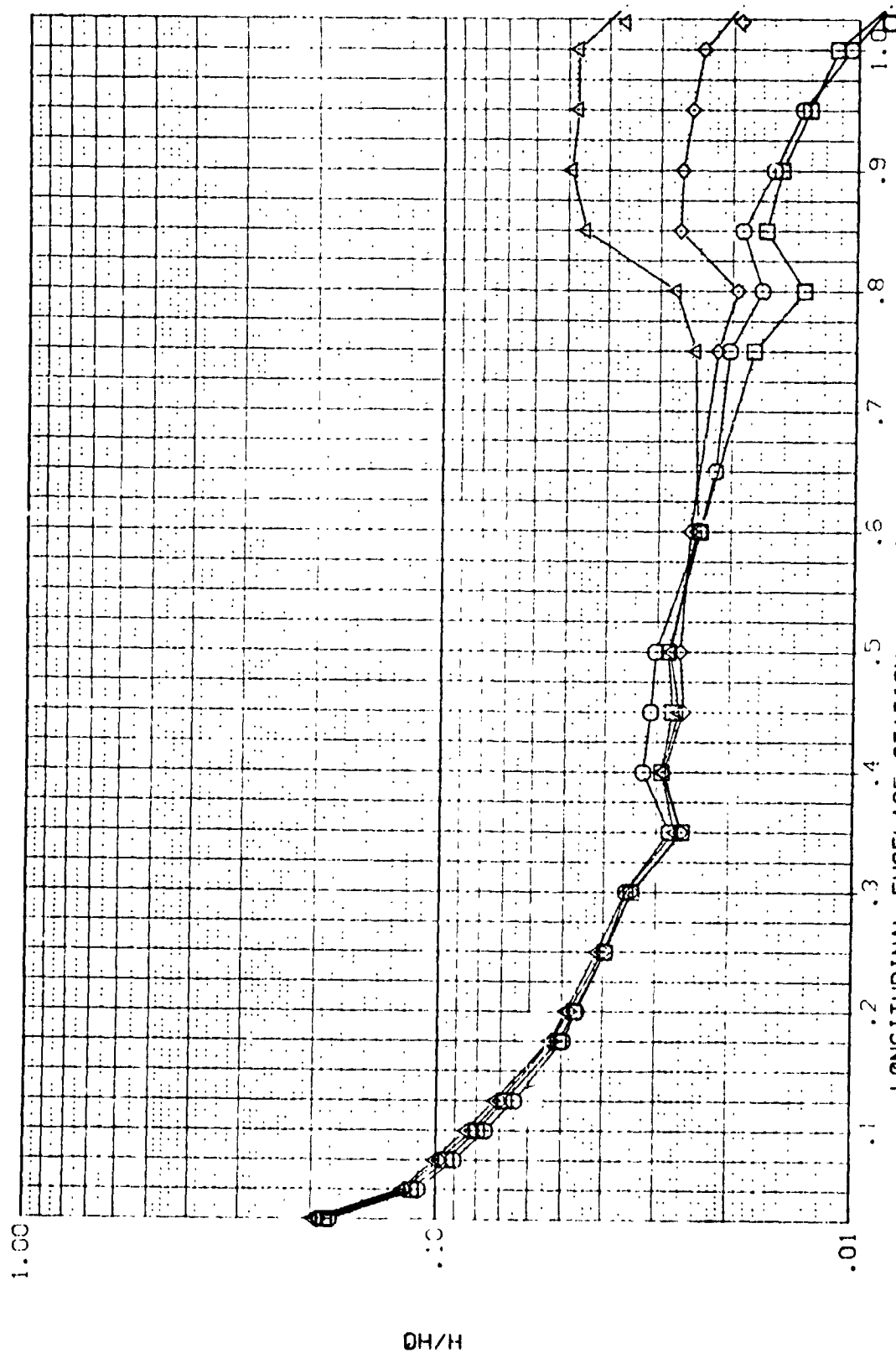
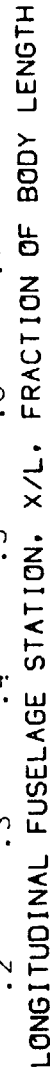


FIG 19 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE LOWER SURFACE AT 20 DEG. ANGLE OF ATTACK

.000



PAGE 304

(R0LB02) 0H14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SV32L
 1.000
 3.000
 6.000
 8.000

B.P.
 .000 .900

ALPHA
 MACH

PARAMETRIC VALUES
 20.000 BETA
 8.000 .000

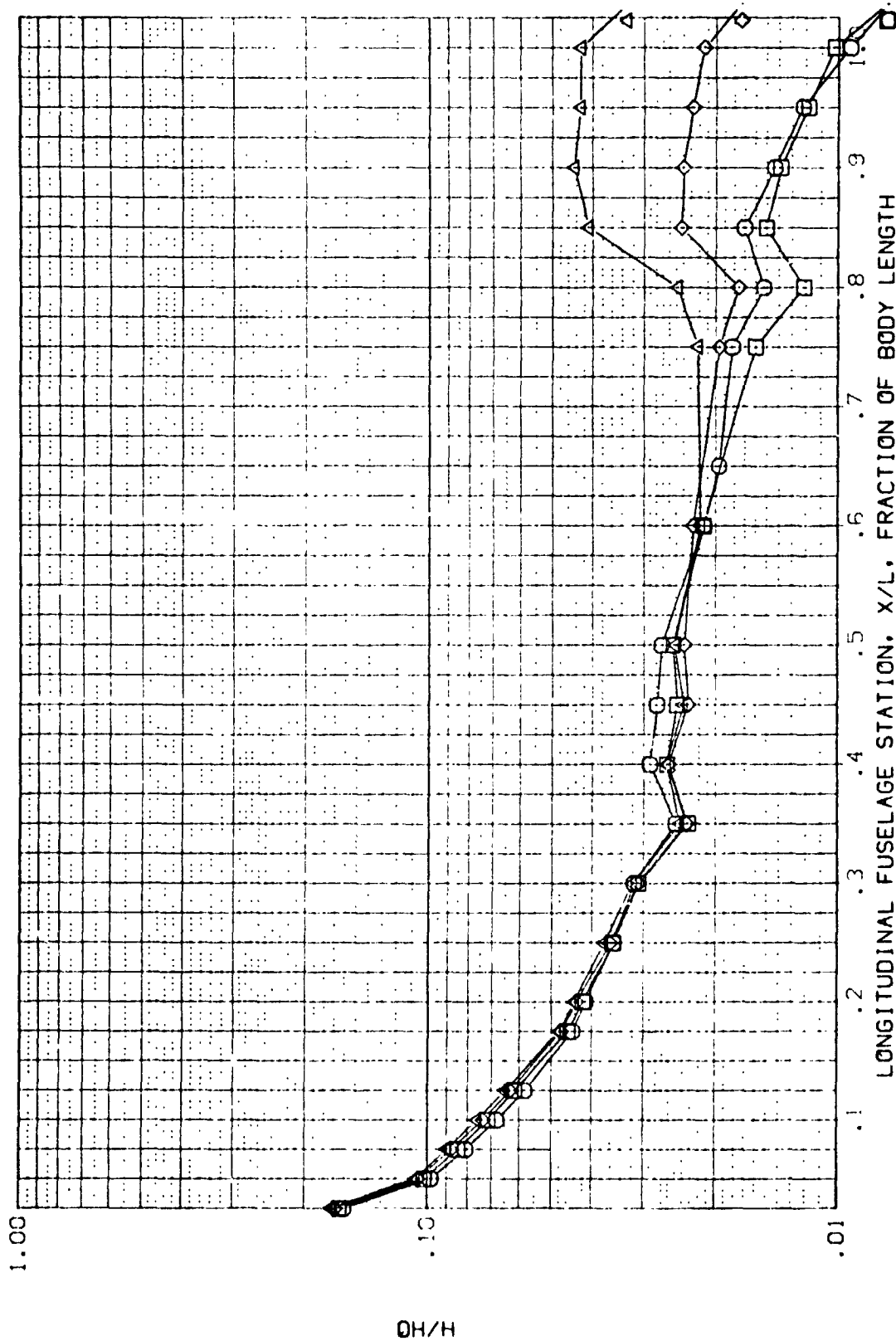


FIG 19 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE LOWER SURFACE AT 20 DEG. ANGLE OF ATTACK

[RQL802] QH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL RN/L B.P. $\frac{H}{H}$ $\frac{H}{H}$

1.000 117.000
3.000
6.000
8.000

PARAMETRIC VALUES
ALPHA MACH
20.000 BETA
8.000 .000

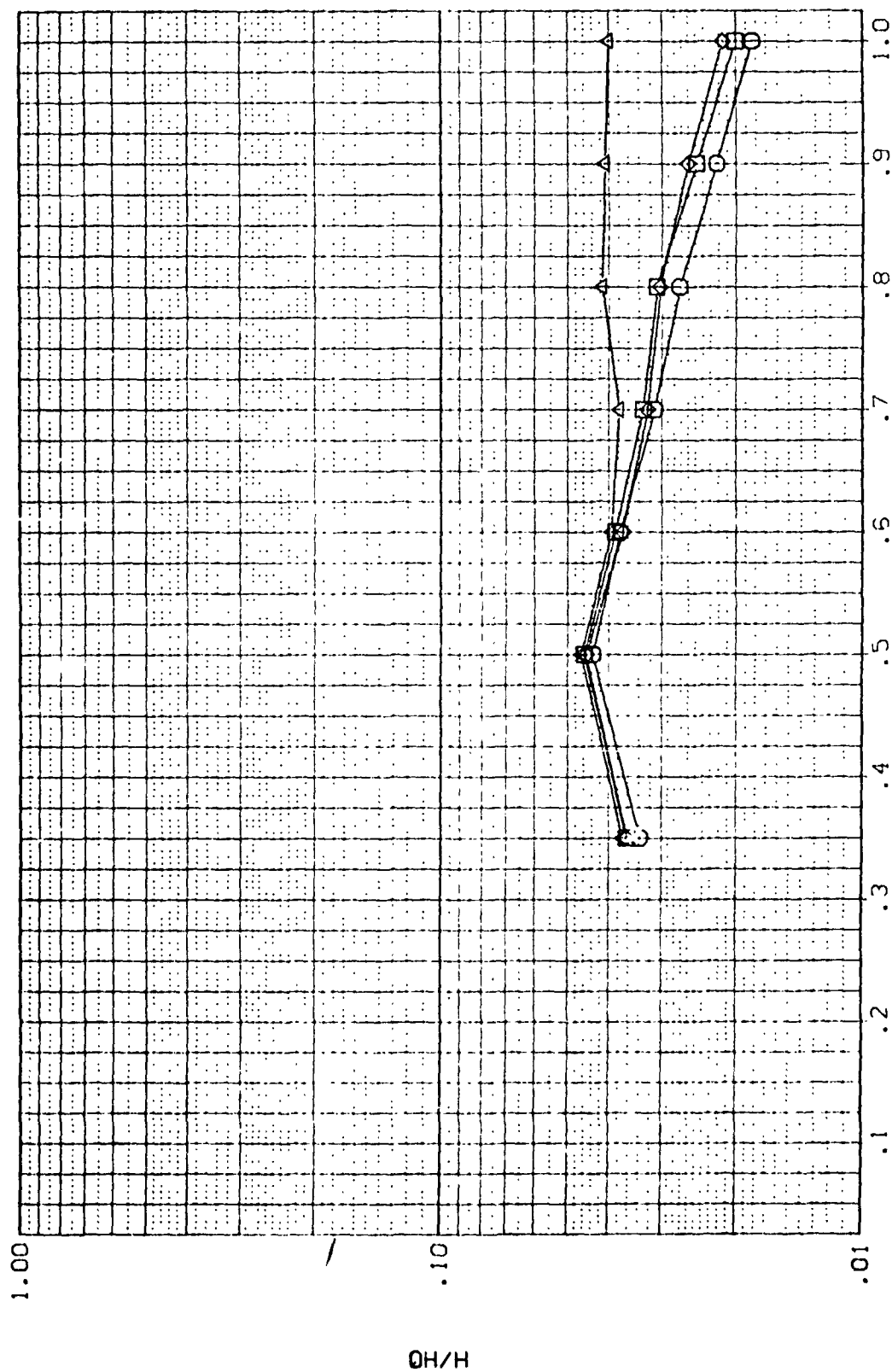


FIG 19 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE LOWER SURFACE AT 20 DEG. ANGLE OF ATTACK

(RQ1W02) 0H14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL RN/L
1.000
3.000
6.000
8.000

2Y/R .400
HAW/HT .850

PARAMETRIC VALUES
ALPHA MACH
20.000
8.000
.000

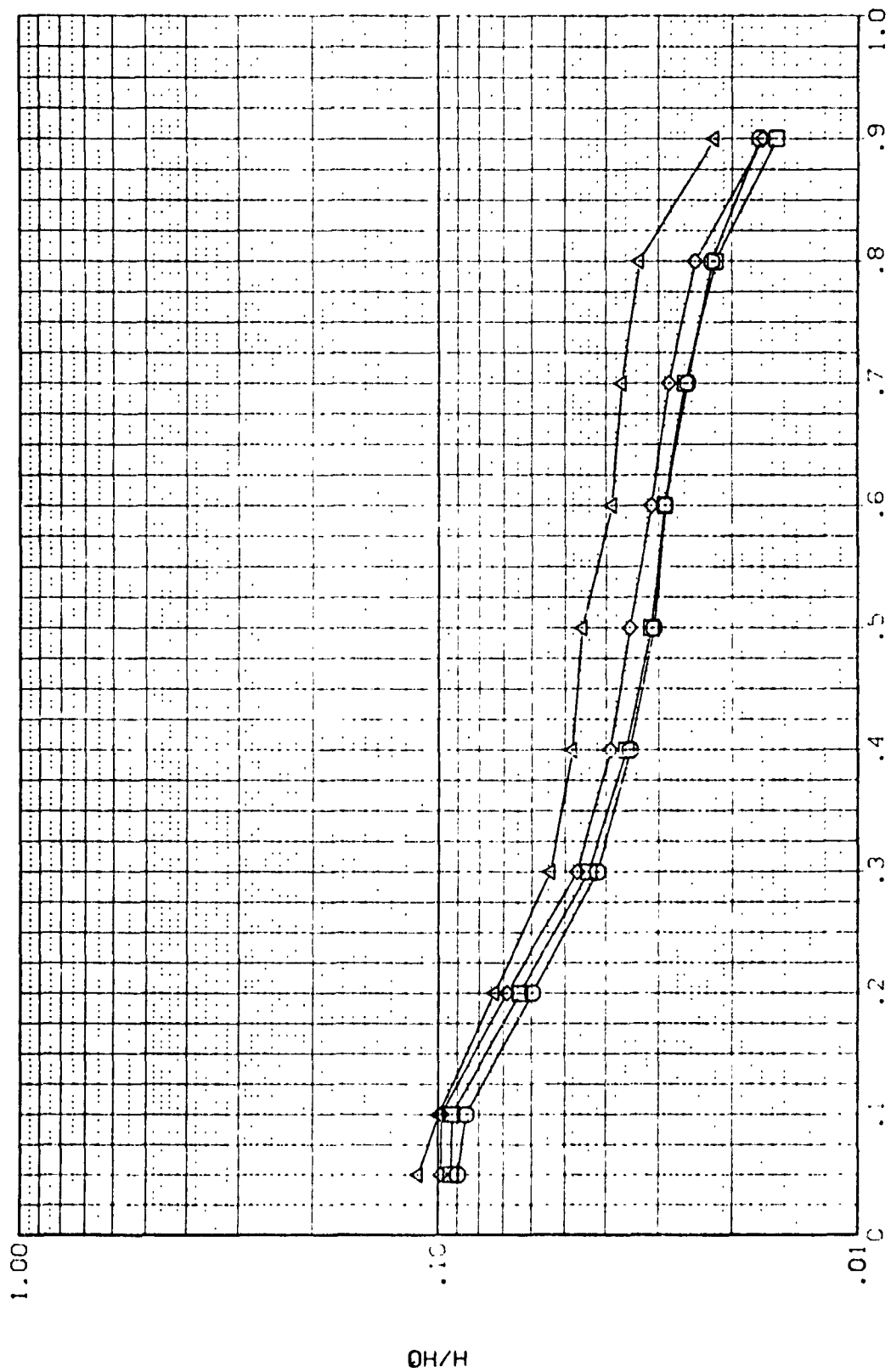


FIG 20 LONGITUDINAL WING STATION. X/C. FRACTION OF LOCAL WING CHORD
VARIATION OF RN/L ON WING LOWER SURFACE AT 20 DEG. ANGLE OF ATTACK

[RQLW02] OH14 B22C7F5M4V7W111 WING LOWER SURFACE

PARAMETRIC VALUES
ALPHA MACH 20.000 8.000 .000

SYMBOL RN/L 2V/B HAM/HT
1.000 .600 .850
3.000
6.000
8.000

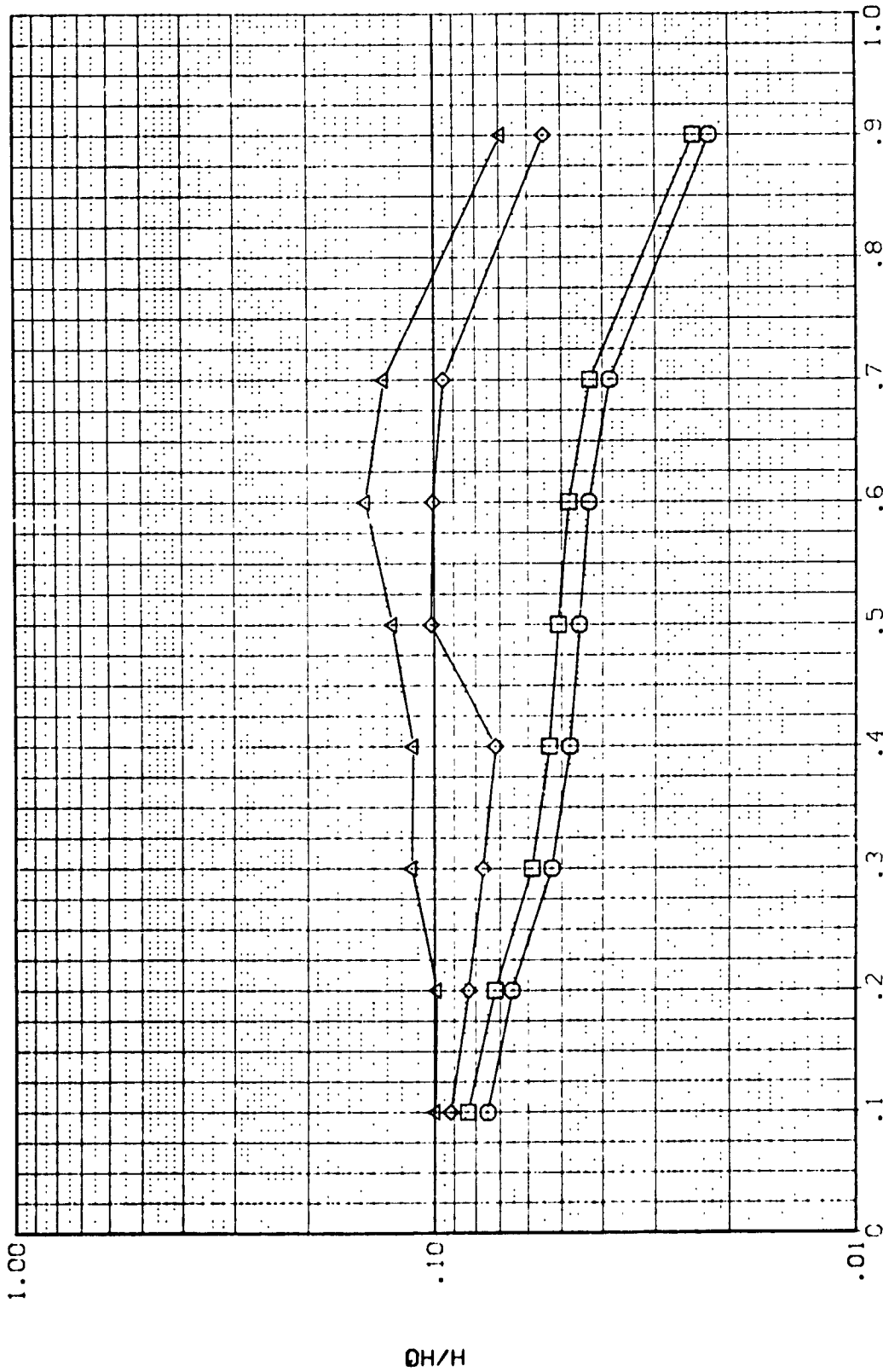


FIG 20 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
VARIATION OF RN/L ON WING LOWER SURFACE AT 20 DEG. ANGLE OF ATTACK

[RQLW02] OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL RN/L
 1.000
 3.000
 6.000
 8.000

2Y/B .800
 HAN/HT .850

PARAMETRIC VALUES
 ALPHA MACH
 20.000
 8.000
 .000

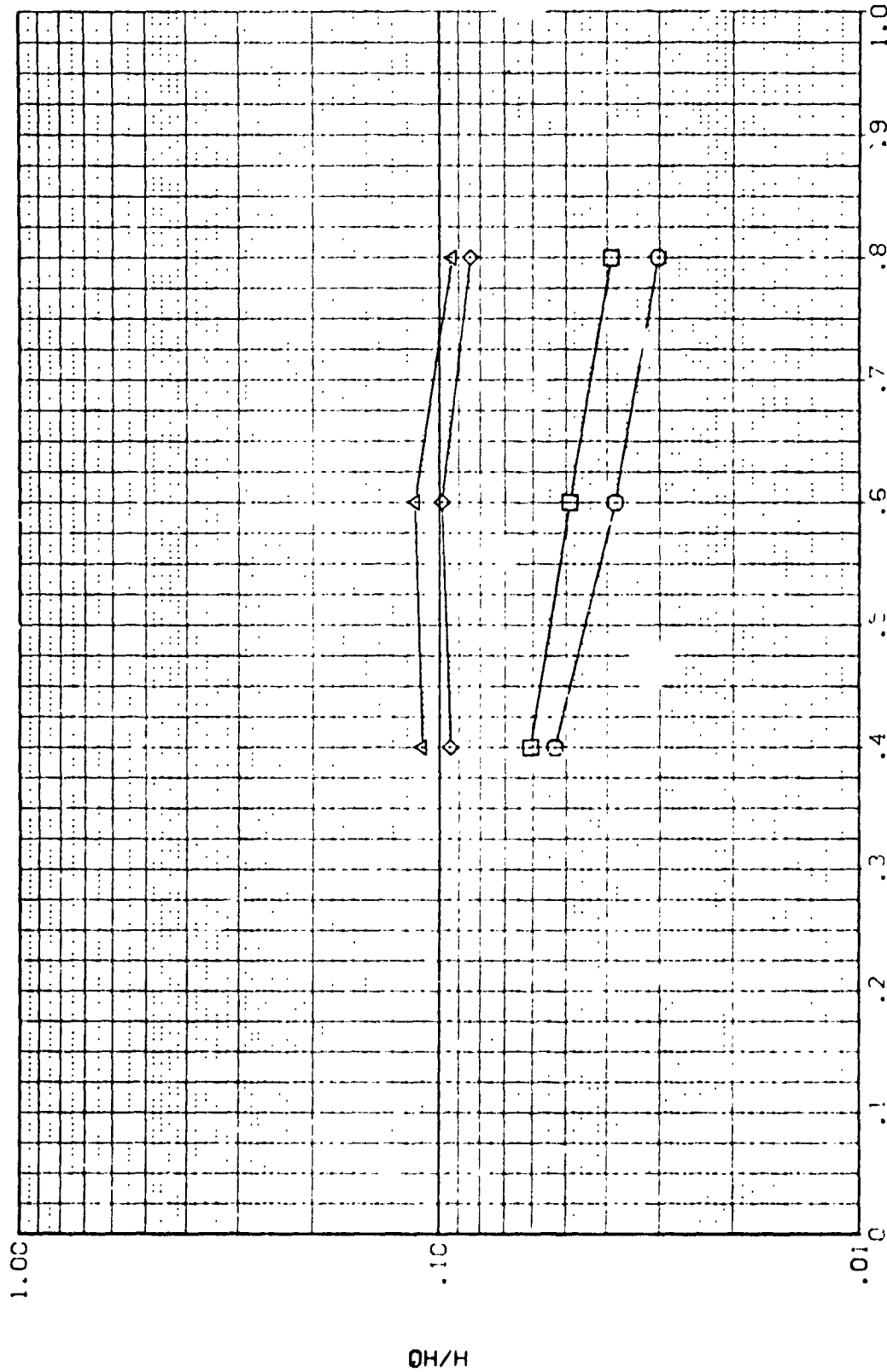


FIG 20 LONGITUDINAL WING STATION. X/C. FRACTION OF LOCAL WING CHORD
 VARIATION OF RN/L ON WING LOWER SURFACE AT 20 DEG. ANGLE OF ATTACK

(R0LW02) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYNOPSIS
 RN/L
 1.000
 3.000
 6.000
 8.000

2Y/B
 .400
 .900

PARAMETRIC VALUES
 ALPHA
 MACH
 20.000
 8.000
 .000
 BETA

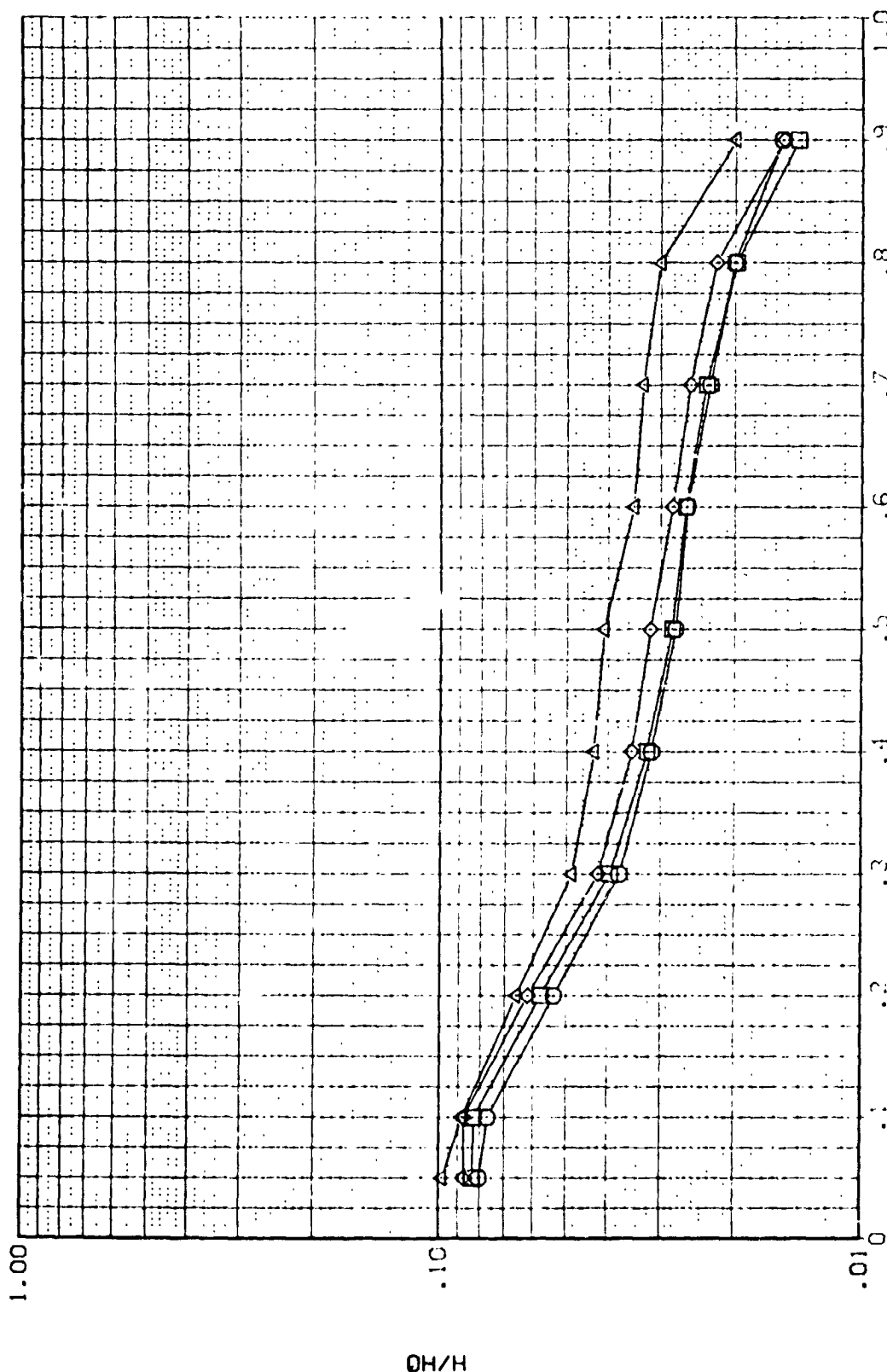


FIG 20 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 VARIATION OF RN/L ON WING LOWER SURFACE AT 20 DEG. ANGLE OF ATTACK

(RQLW02) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SVBC. PN/L
1.000
3.000
6.000
8.000

2Y/B .600
HAB/HY .900

PARAMETRIC VALUES
ALPHA 20.000
HACH 8.000
BETA .000

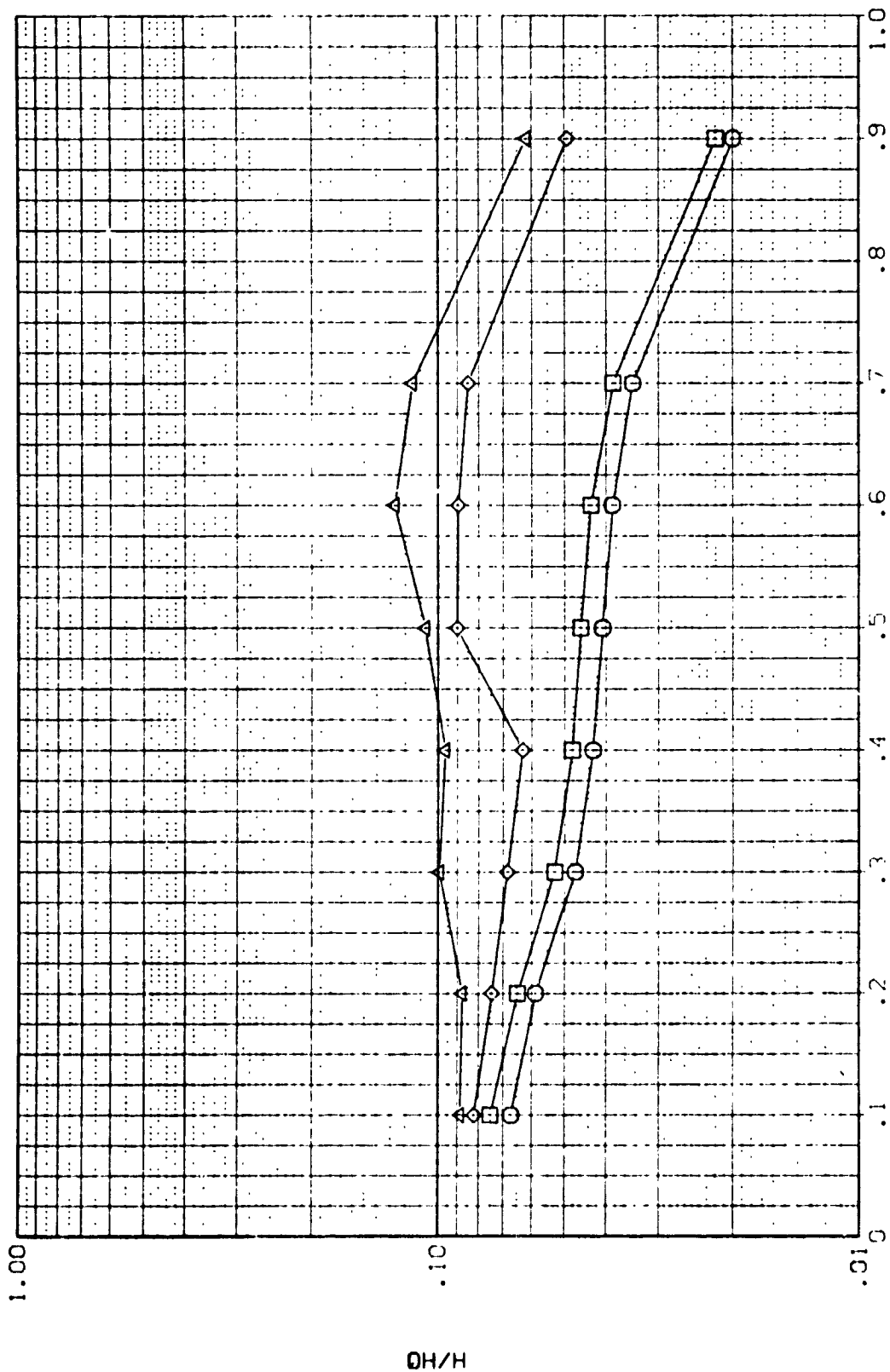


FIG 20 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
VARIATION OF RN/L ON WING LOWER SURFACE AT 20 DEG. ANGLE OF ATTACK

(R0LW02) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL
 RN/L
 1.000
 3.000
 6.000
 8.000

2V/B
 .800
 .900

ALPHA
 MACH

PARAMETRIC VALUES
 20.000 BETA
 8.000 .000

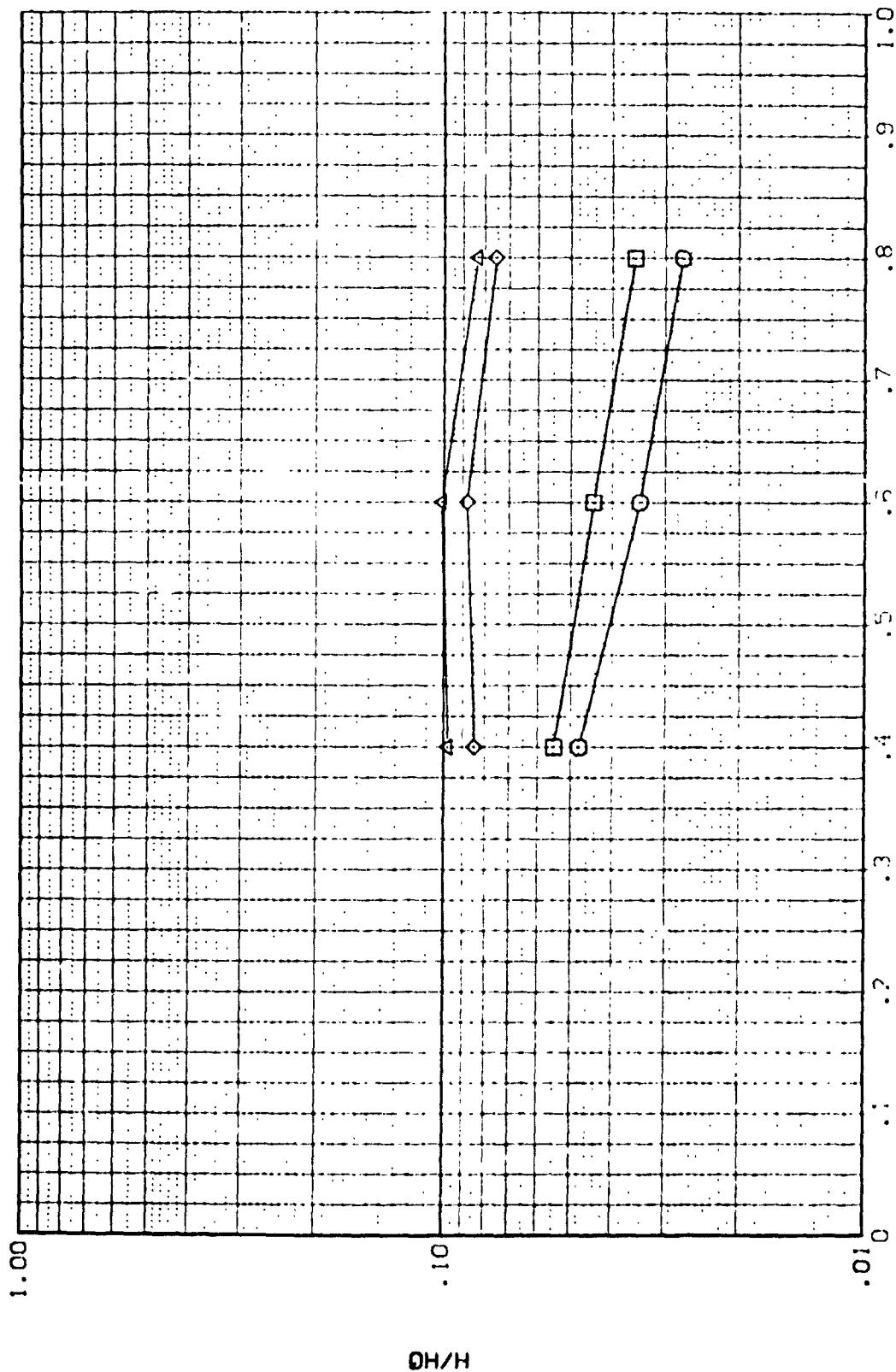


FIG 20 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
 VARIATION OF RN/L ON WING LOWER SURFACE AT 20 DEG. ANGLE OF ATTACK

(RQLS02) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL RN/L
1.000
3.000
6.000
8.000

W.P. 375.000
MACH/WT .850

ALPHA
MACH

PARAMETRIC VALUES
20.000 BETA
8.000 .000

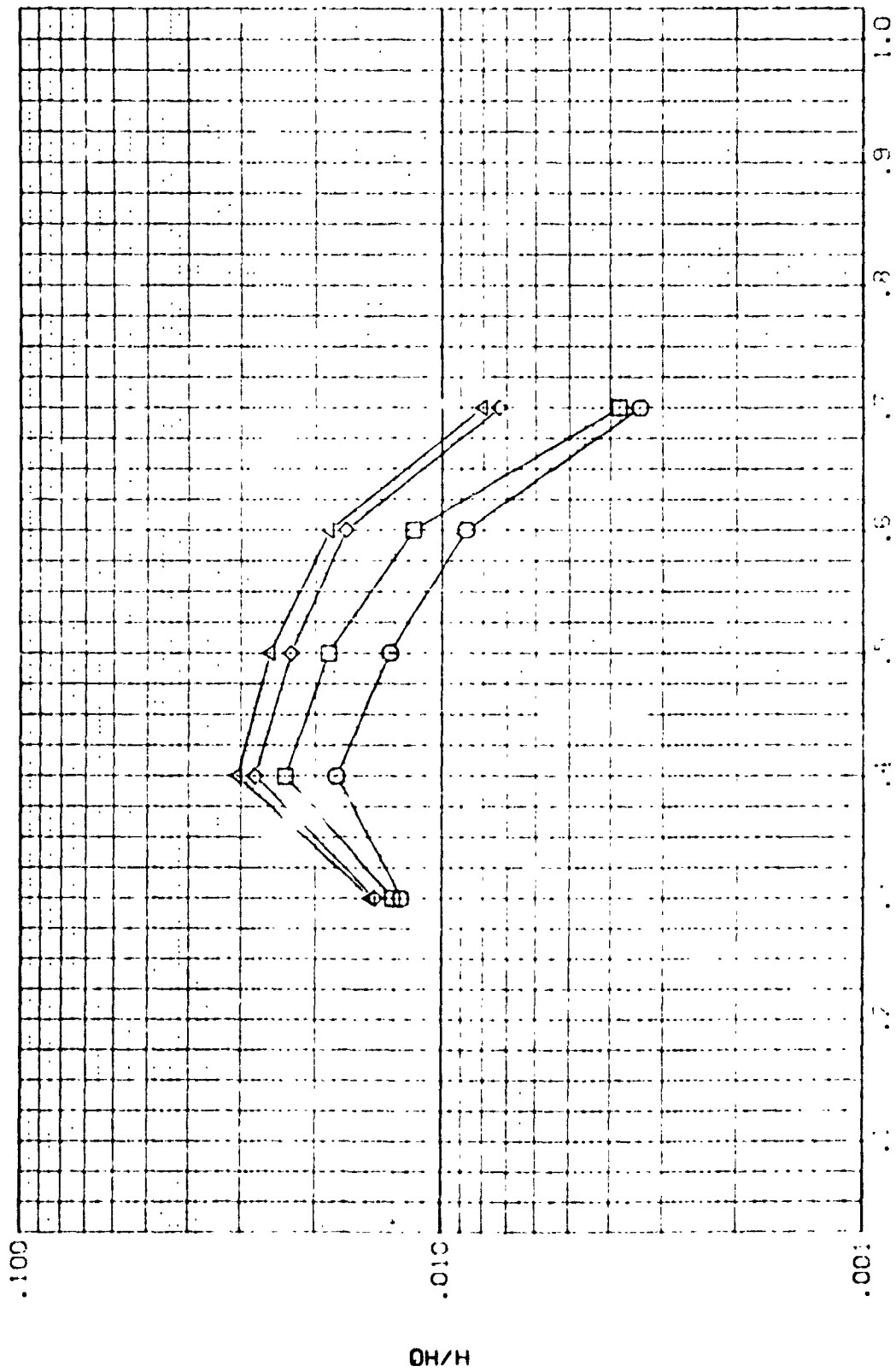


FIG 21 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 20 DEG. ANGLE OF ATTACK

(R0LS02) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYNOPSIS
 1.000
 3.000
 6.000
 8.000

M.P.
 400.000
 MACH
 .850

ALPHA
 MACH

PARAMETRIC VALUES
 20.000 BETA
 8.000 .000

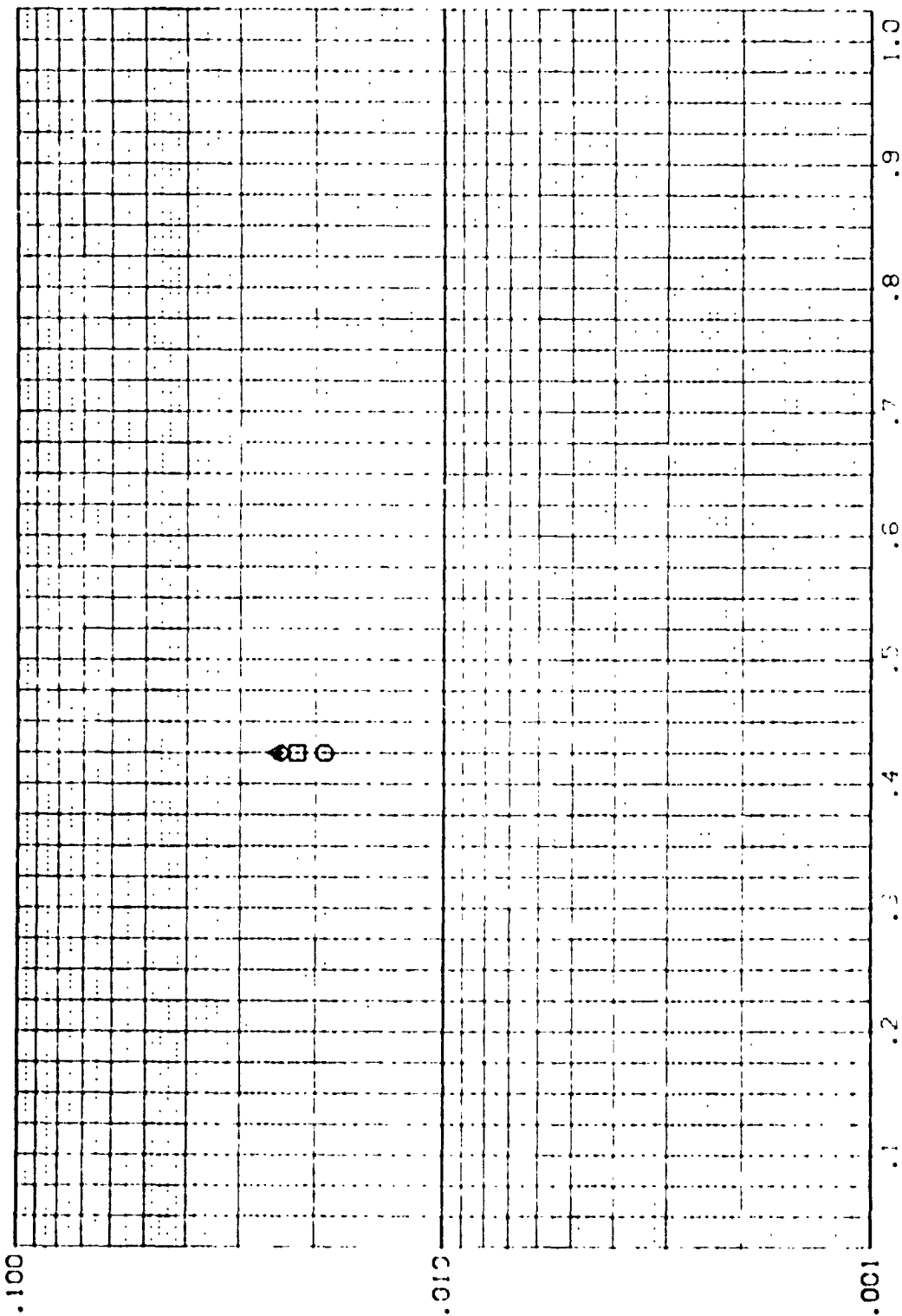


FIG 21 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 20 DEG. ANGLE OF ATTACK

OROLS02) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL $\frac{D}{H}$ W.P. HAW/HT

1.000 425.000 .850

3.000

6.000

8.000

ALPHA
MACH

PARAMETRIC VALUES

20.000 BETA
8.000

.000

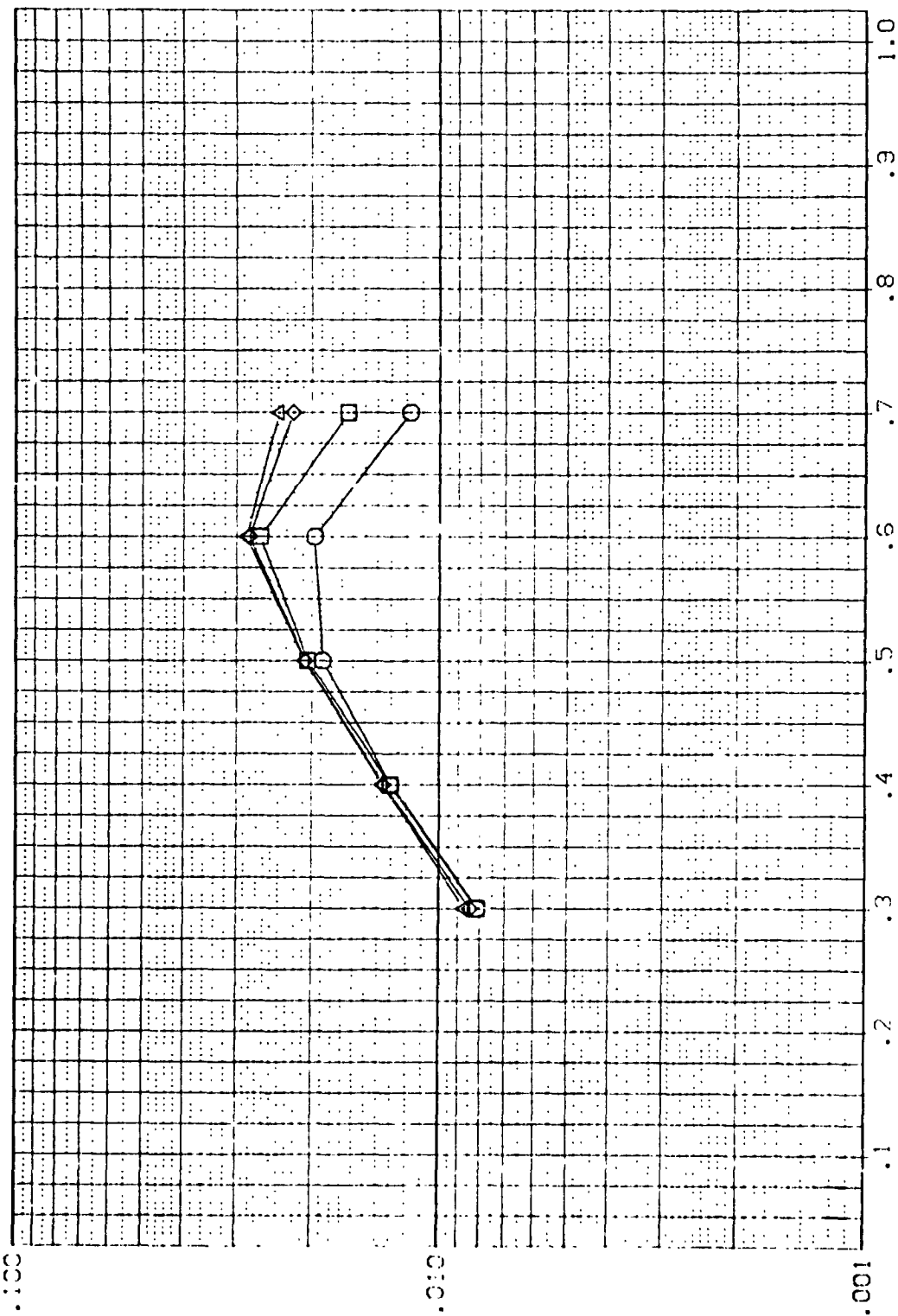


FIG 21 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 20 DEG. ANGLE OF ATTACK

(RQLS02) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL RN/L
1.000
3.000
6.000
8.000

V.P. 465.000
HAW/HT .850

ALPHA MACH
PARAMETRIC VALUES
20.000 BETA
8.000 .000

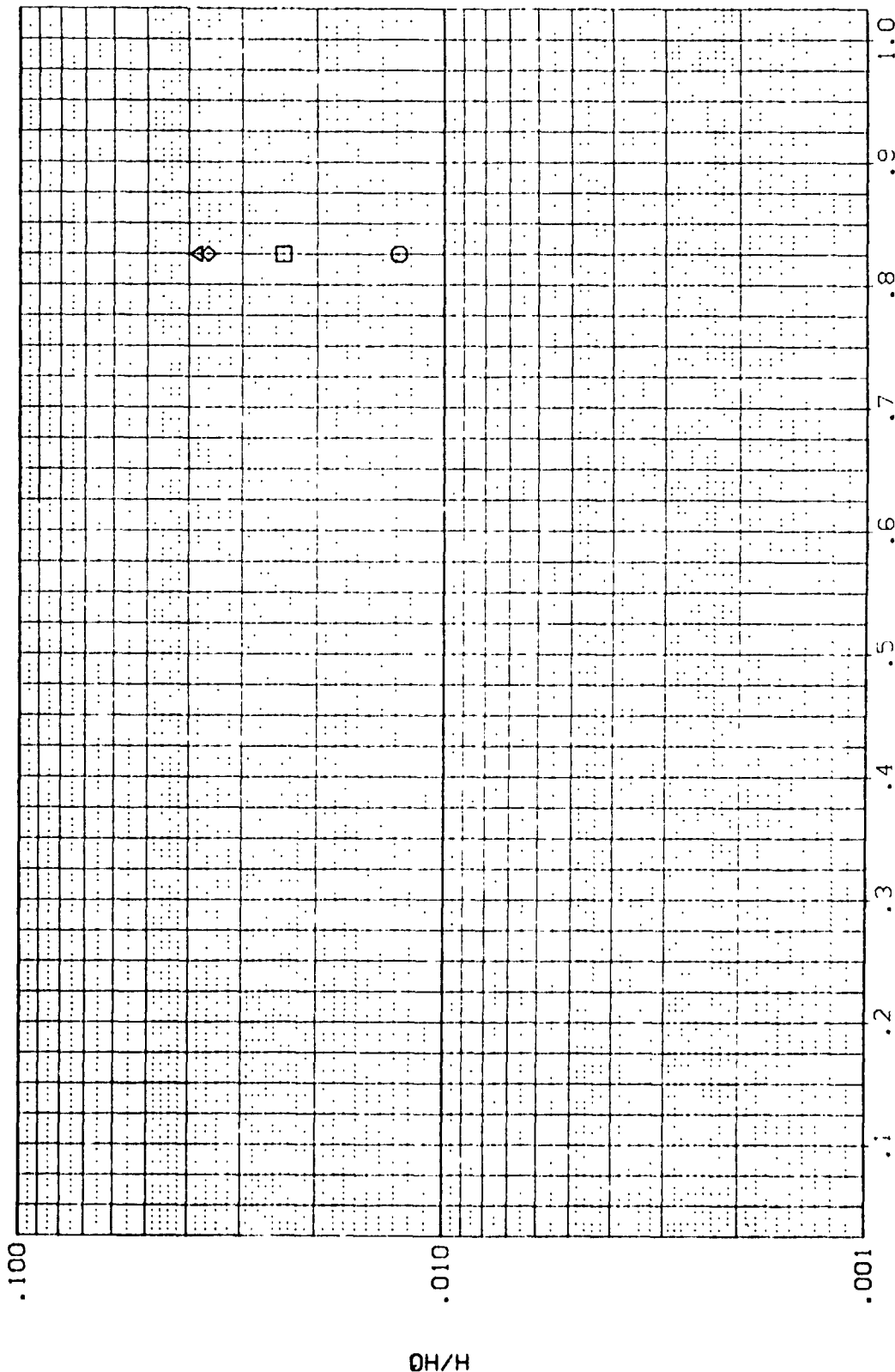


FIG 21 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 20 DEG. ANGLE OF ATTACK

(RQLS02) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL α Δ
 RN/L 1.000
 3.000
 6.000
 8.000

W.P. 1.000
 HAW/HT .850

PARAMETRIC VALUES
 ALPHA MACH
 20.000 8.000
 BETA .000

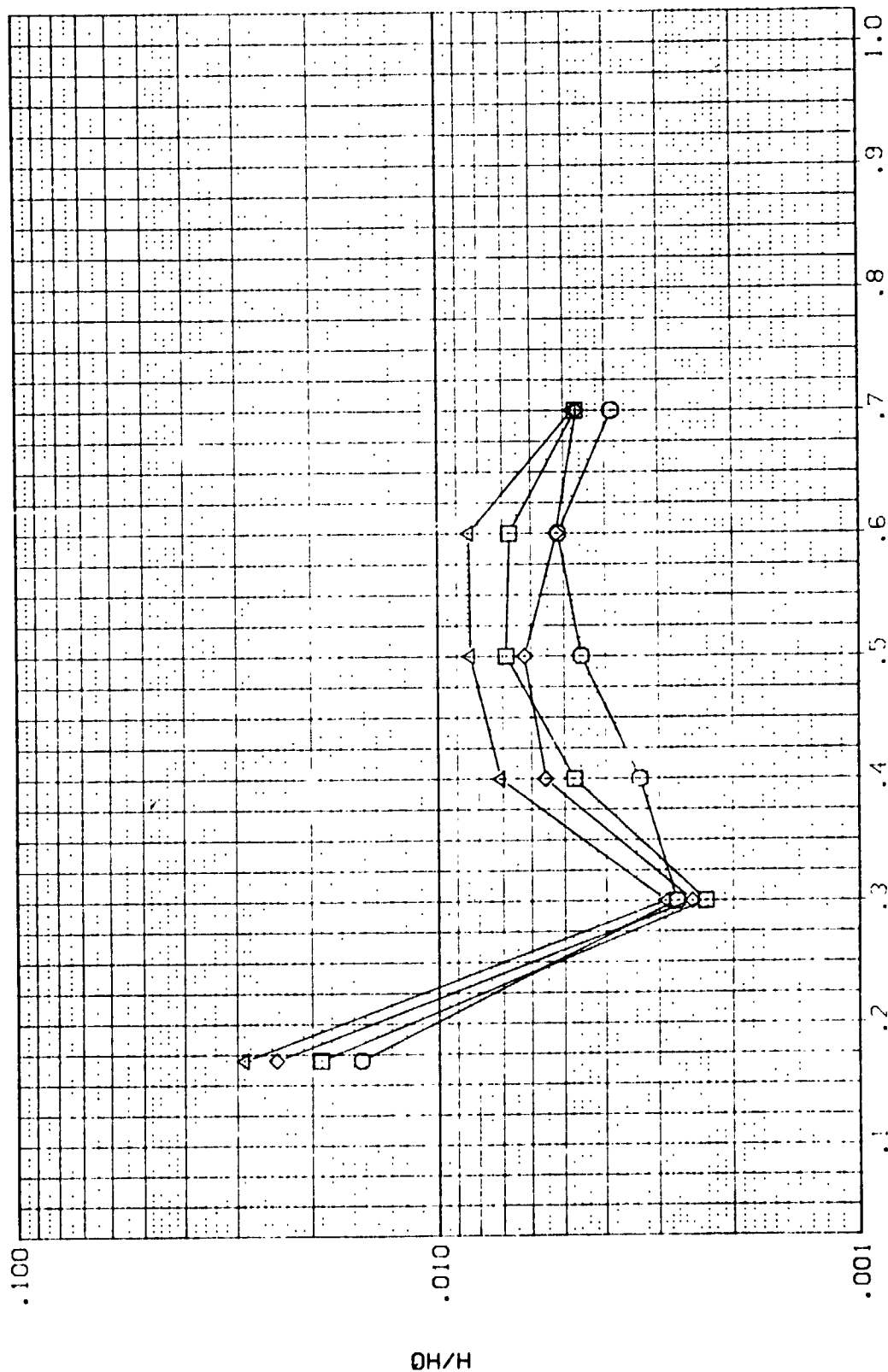


FIG 21 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 20 DEG. ANGLE OF ATTACK

(RQLS02) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL RN/L
 1.000
 3.000
 6.000
 8.000

W.P. 375.000
 HAW/HT .900

ALPHA MACH
 20.000
 8.000

PARAMETRIC VALUES
 BETA .000

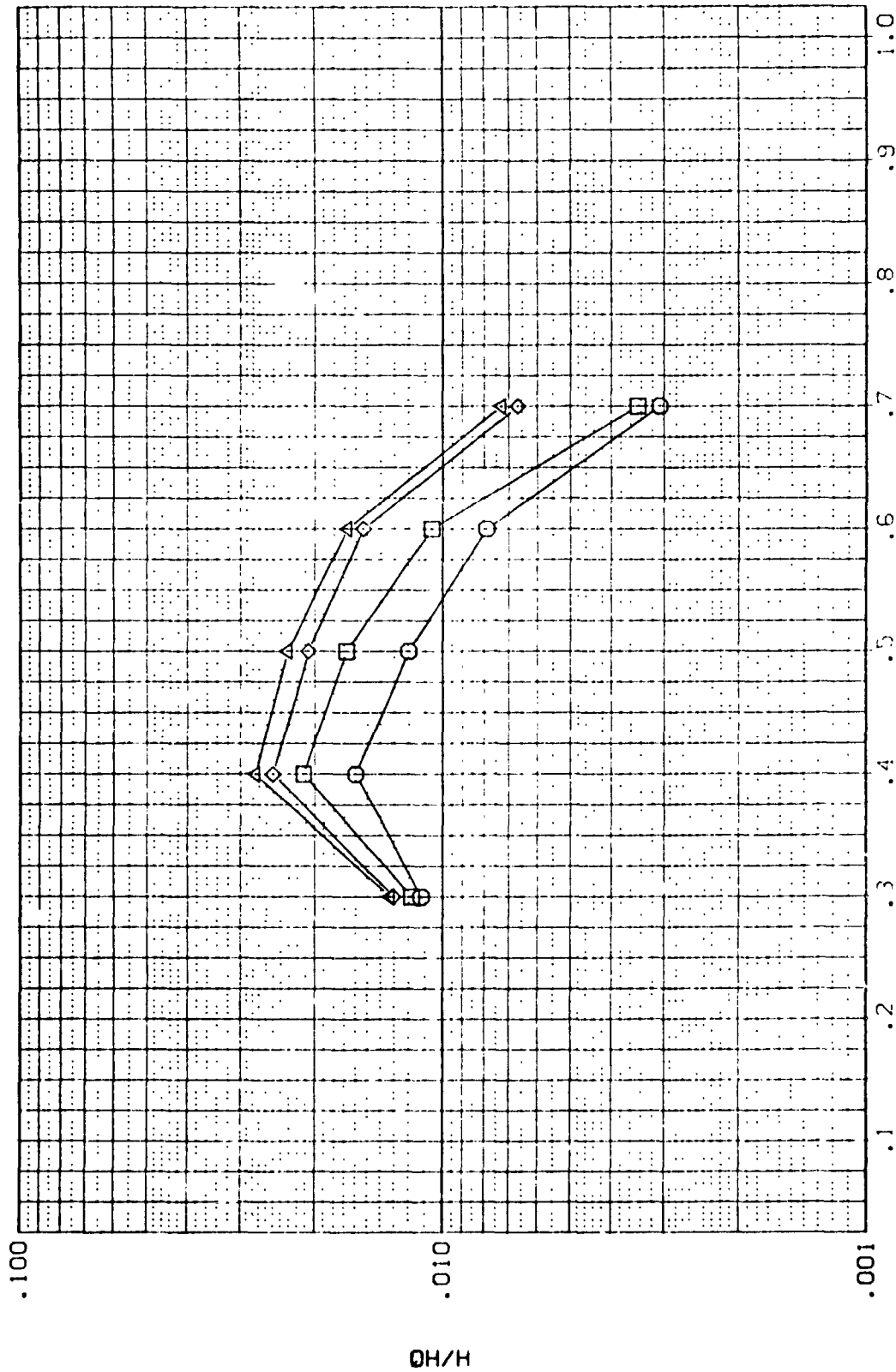


FIG 21 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 20 DEG. ANGLE OF ATTACK

(RQLS02) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYNTHETIC
 W.P. 400.000
 HAW/HT .900
 1.000
 3.000
 6.000
 8.000

PARAMETRIC VALUES
 ALPHA MACH
 20.000 BETA
 8.000 .000

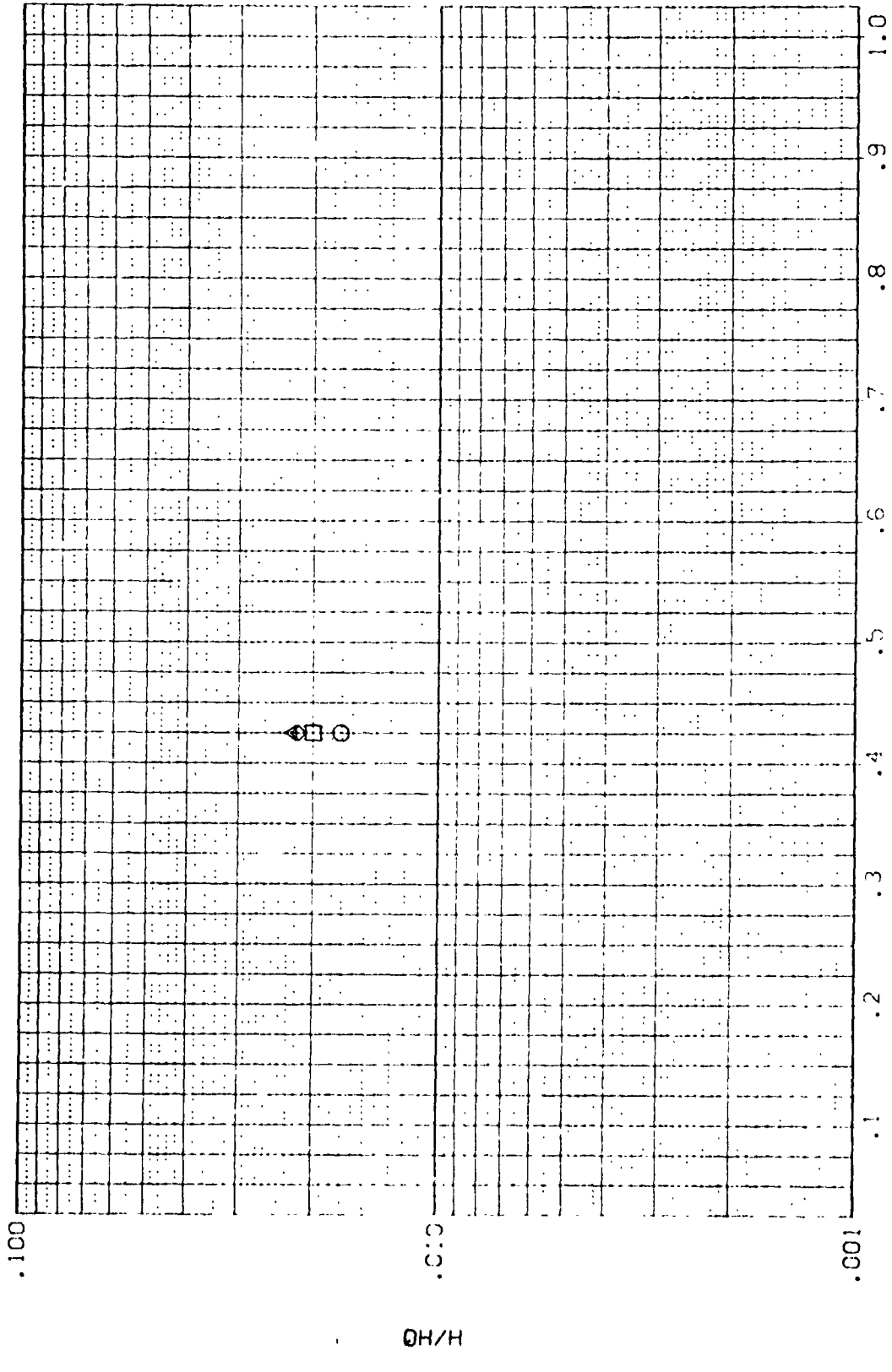


FIG 21 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 20 DEG. ANGLE OF ATTACK

(RQLS02) 0H14 822C7F5M4V7W111 FUSELAGE UPPER SURFACE

SV/EC
 1.000
 3.000
 6.000
 8.000

V.P.

475.000

HA/W/HT

.900

PARAMETRIC VALUES

BETA

20.000
 8.000

ALPHA
 MACH

.000

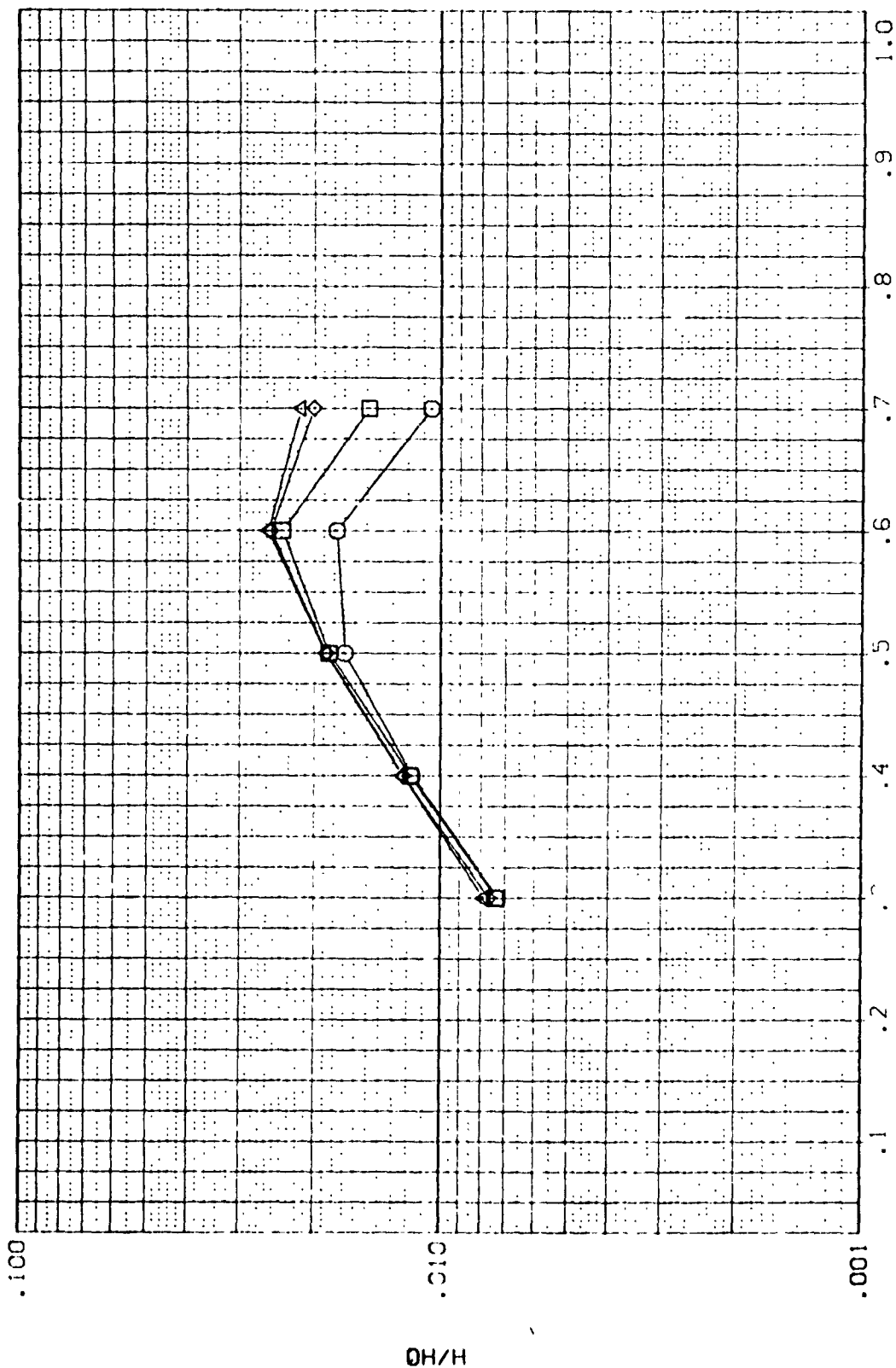


FIG 21 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 20 DEG. ANGLE OF ATTACK

(RQLS-2) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL RN/L V.P. HAM/HT
 1.000 465.000
 2.000
 6.000
 8.000

PARAMETRIC VALUES
 ALPHA BETA
 MACH 20.000 8.000 .000

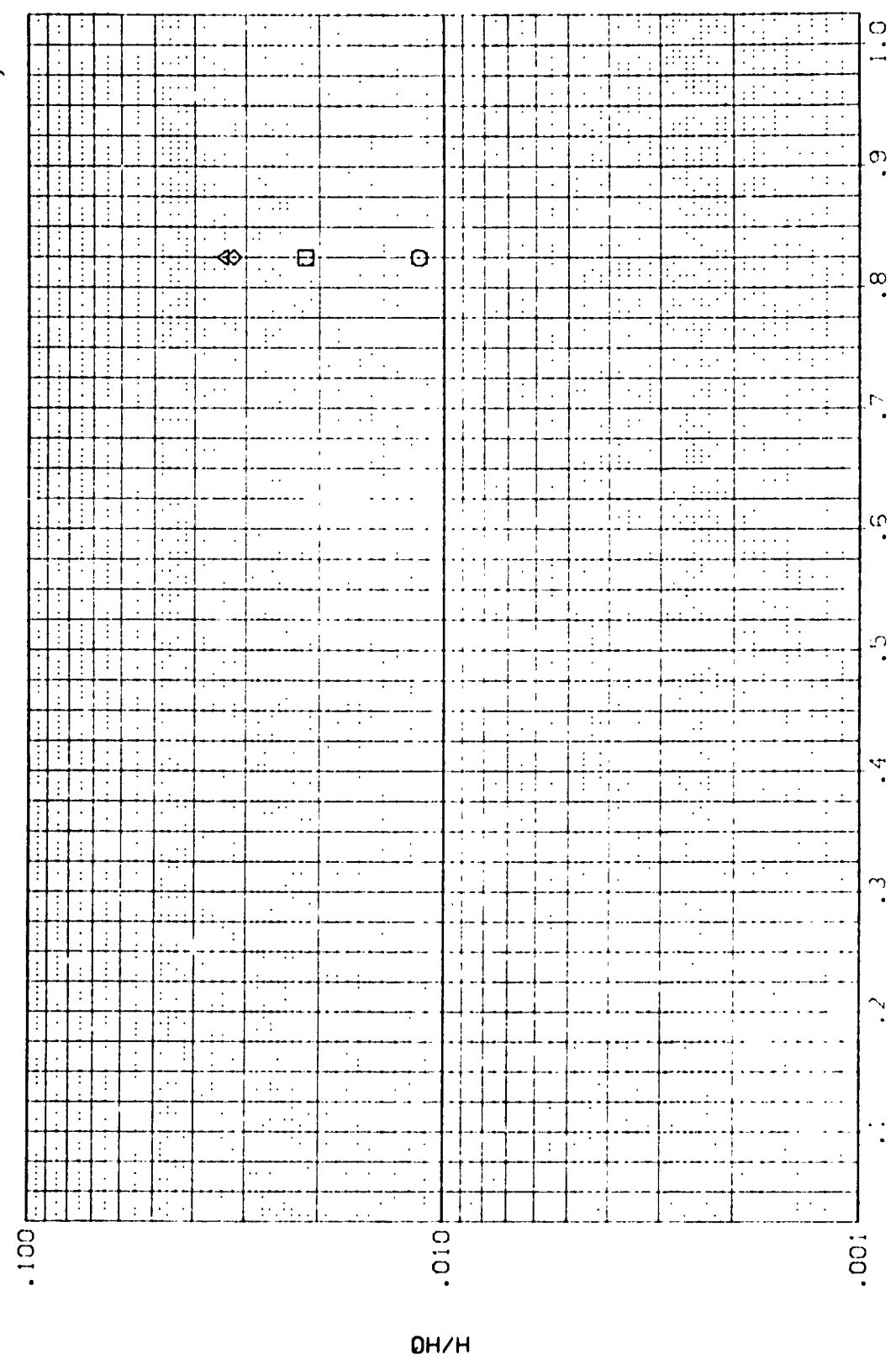


FIG 21 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 20 DEG. ANGLE OF ATTACK

(RQLS02) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 ALPHA MACH
 20.000 8.000
 BETA .000

SYMBOL RN/L W.P. %C1.000
 1.000
 3.000
 6.000
 8.000

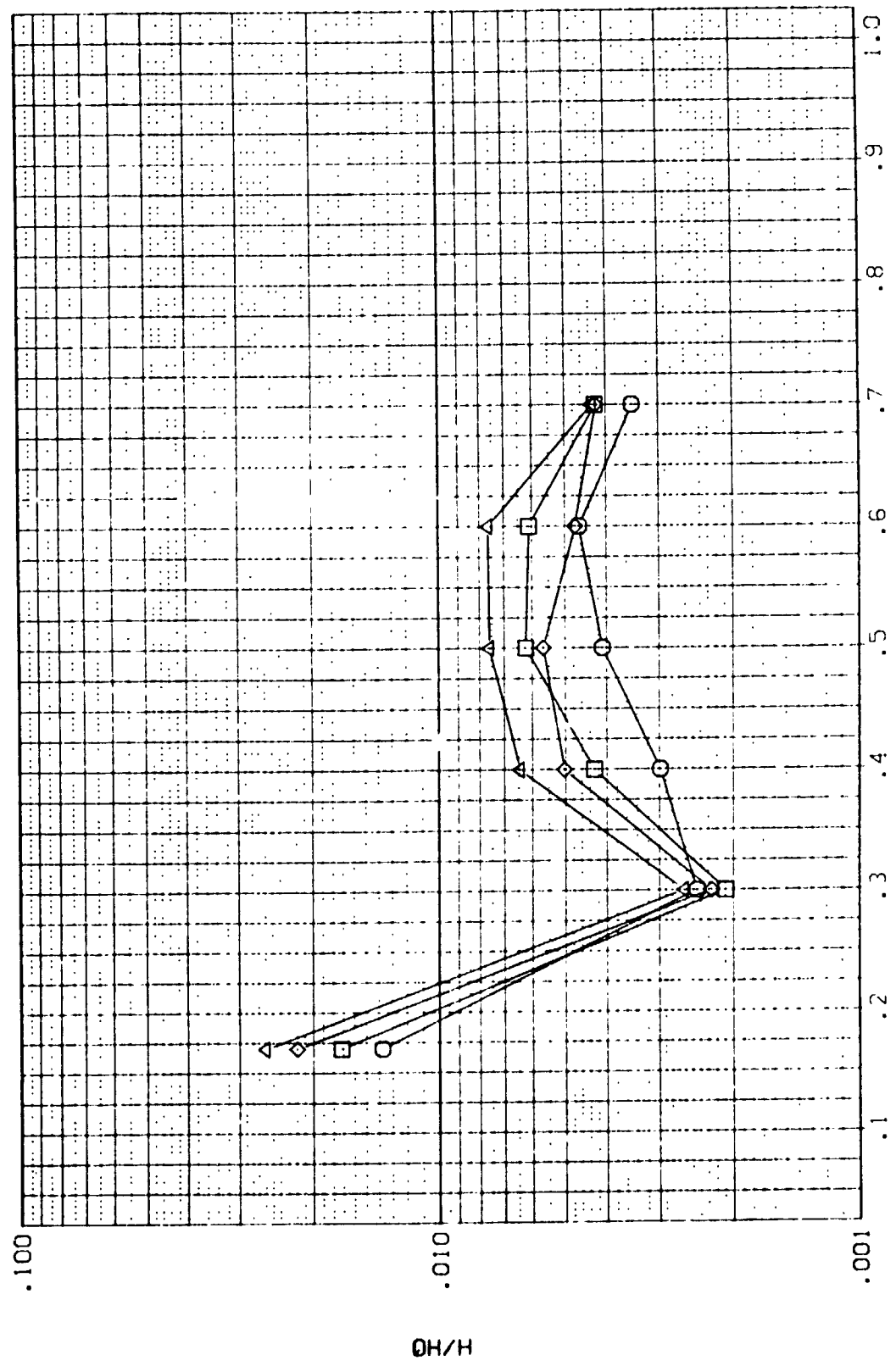


FIG 21 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 20 DEG. ANGLE OF ATTACK

(R0LB03) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

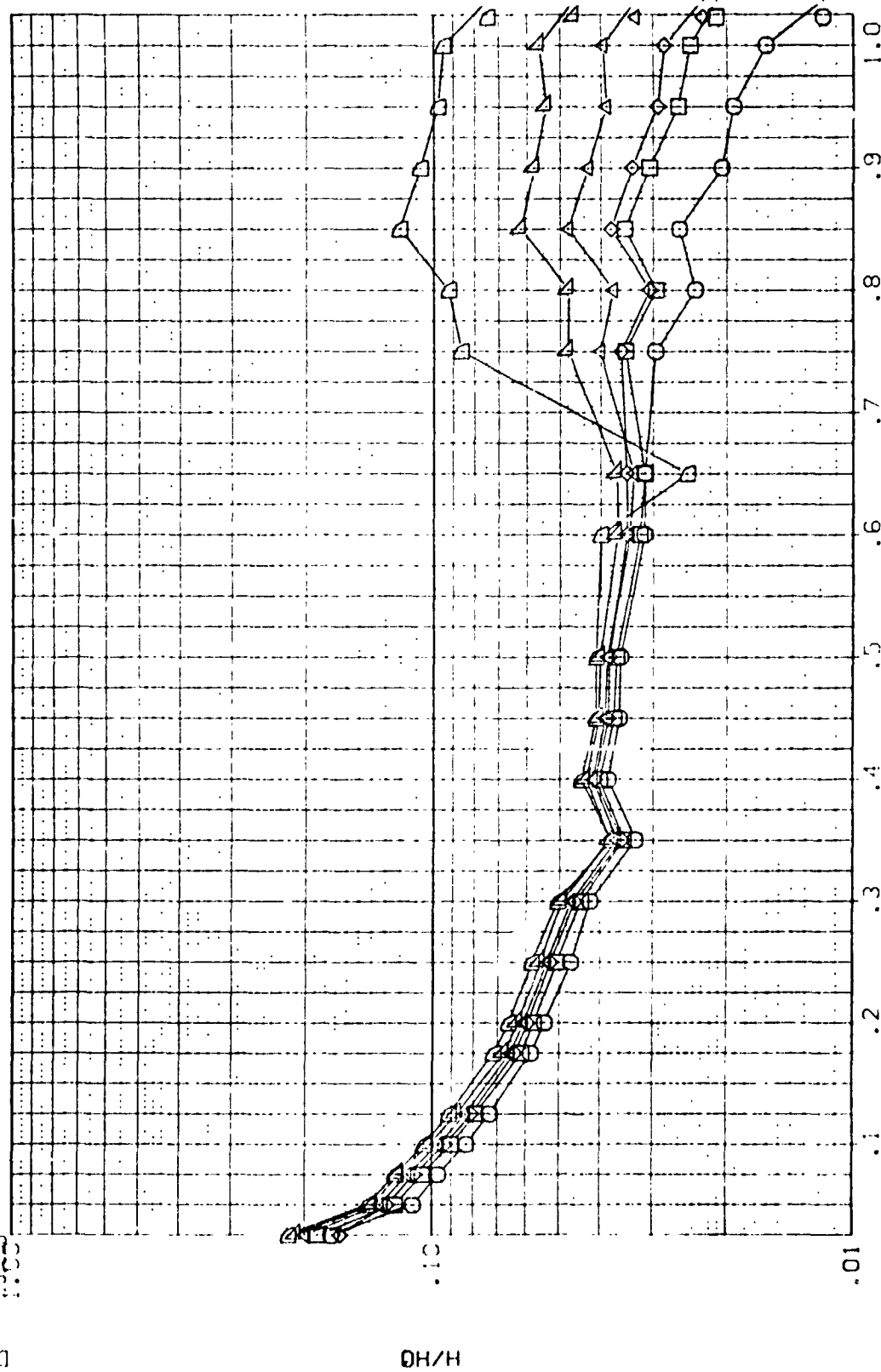
SVBC RV/L
1.000
2.000
3.000
4.000
5.000
6.000
7.000
8.000

B.P. .000

HAW/HT .850

ALPHA
MACH

PARAMETRIC VALUES
25.000 BETA
8.000 .000



LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH

FIG 22 VARIATION OF RN/L ON FUSELAGE LOWER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLB03) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL RN/L 1.000
3.000
4.000
5.000
6.000
10.000

B.P. 117.000
HAW/HT .850

PARAMETRIC VALUES
ALPHA MACH 25.000 BETA 8.000 .000

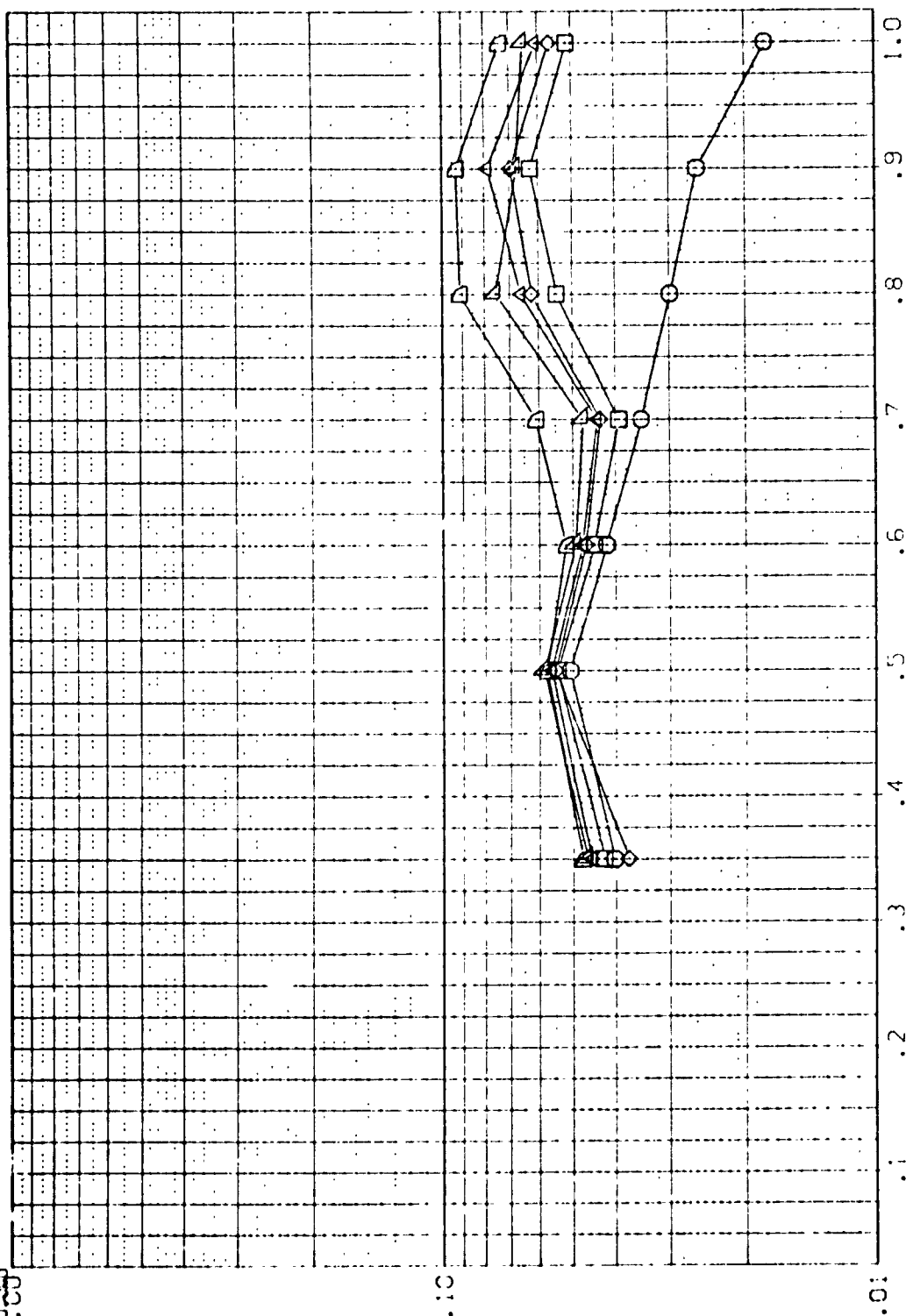


FIG 22 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE LOWER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLB03) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SVBCL RN/L B.P. HAW/HT
 1.000 .000 .900
 3.000
 4.000
 5.000
 6.000
 10.000

PARAMETRIC VALUES
 ALPHA MACH
 25.000 BETA
 8.000 .000

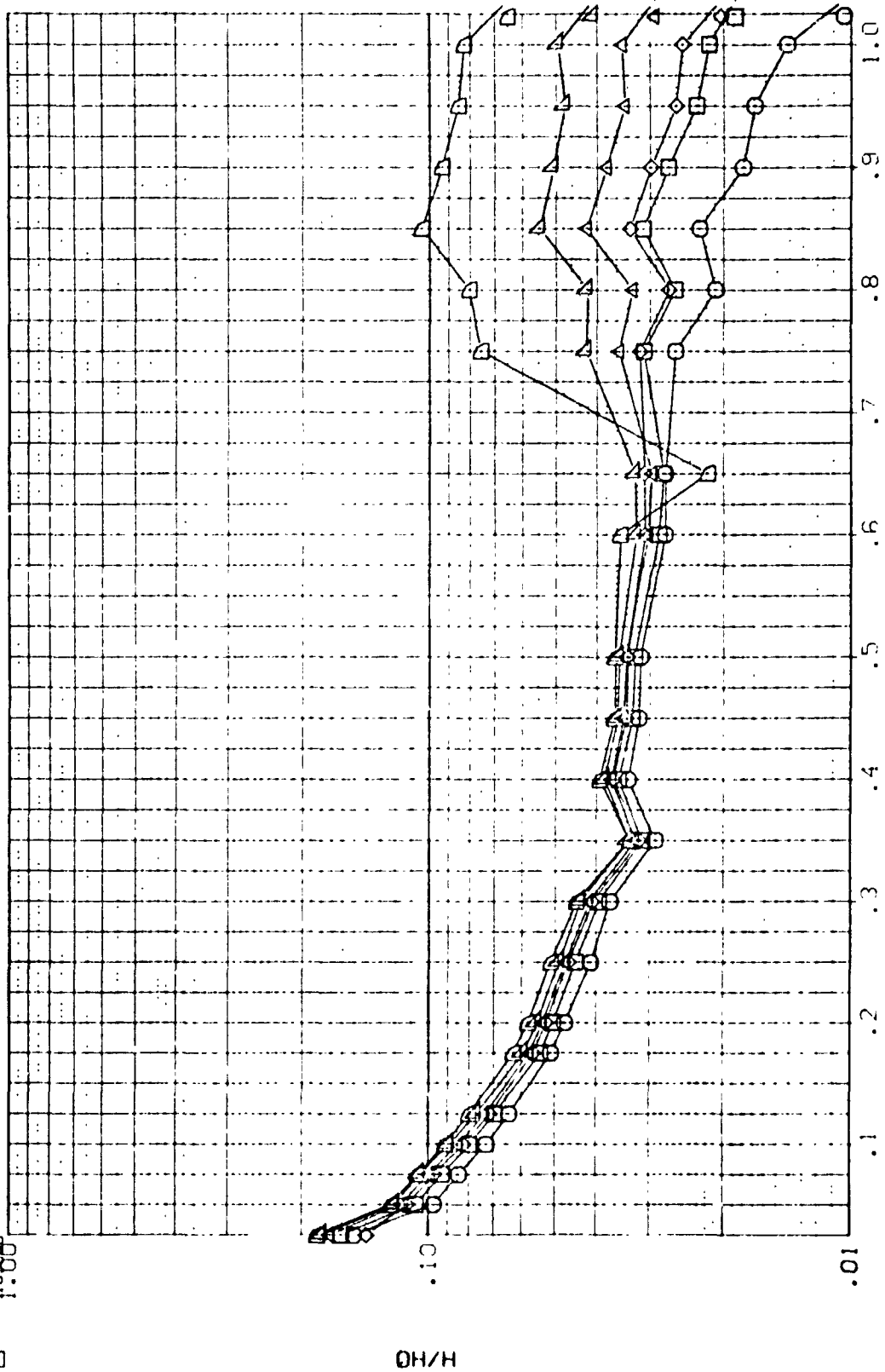


FIG 22 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE LOWER SURFACE AT 25 DEG. ANGLE OF ATTACK

(R0LB03) 0H14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYNTH 8.0° 117.000 HAW/HT .900

PARAMETRIC VALUES
ALPHA MACH 25.000 BETA .000

1.000
2.000
3.000
4.000
5.000
6.000
10.000

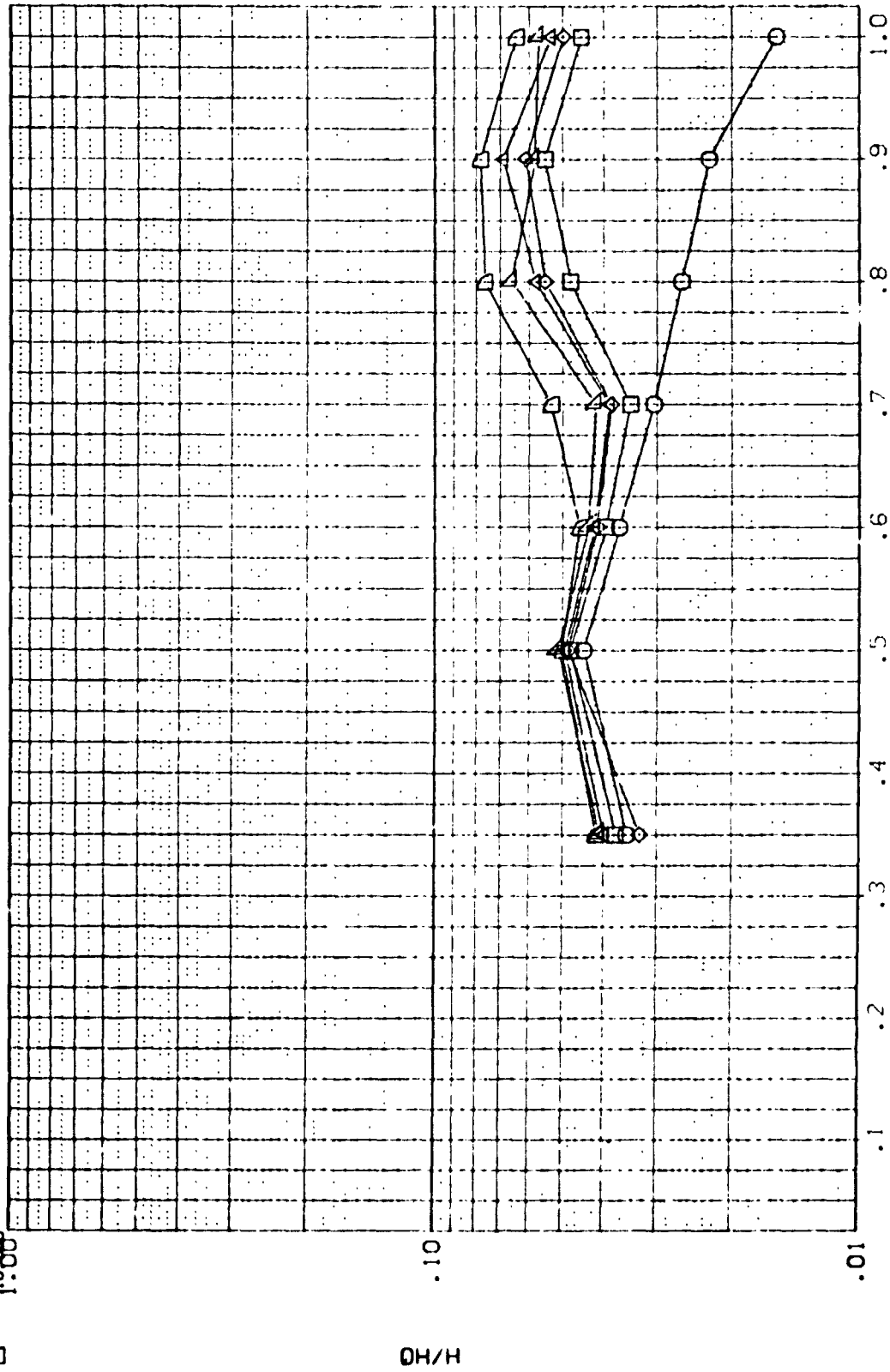


FIG 22

(RQLW03) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL RN/L
1.000
3.000
4.000
5.000
6.000
10.000

2V/B .40C
H/V/MT .850

PARAMETRIC VALUES
ALPHA MACH
25.000
8.000 .000

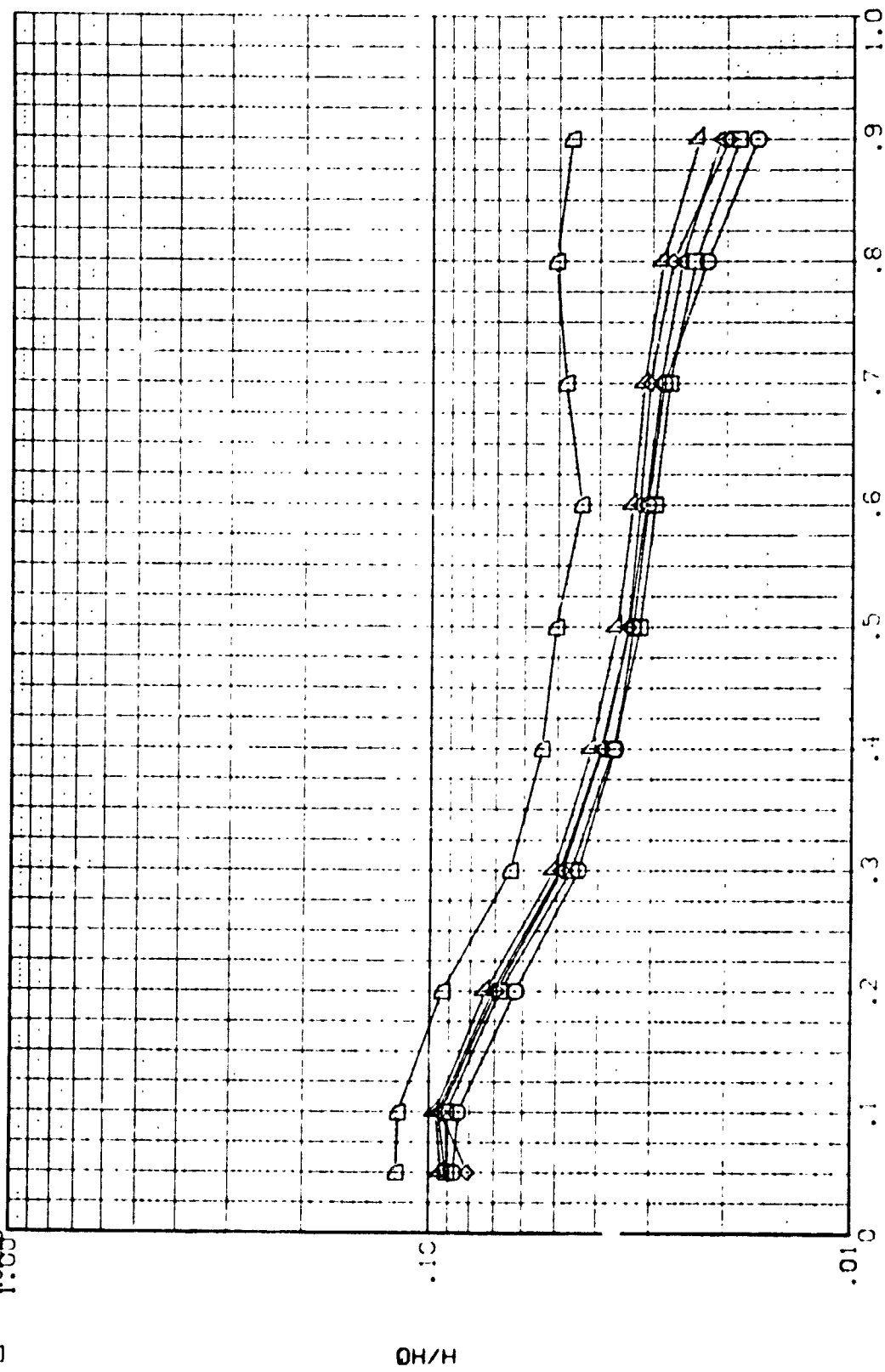


FIG 23 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
VARIATION OF RN/L ON WING LOWER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLW03) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

PARAMETRIC VALUES
 ALPHA 25.000 BETA .000
 MACH 8.000

2Y/B .600
 HAW/WT .850

SV-BCL RN/L
 1.000
 3.000
 4.000
 5.000
 6.000
 10.000

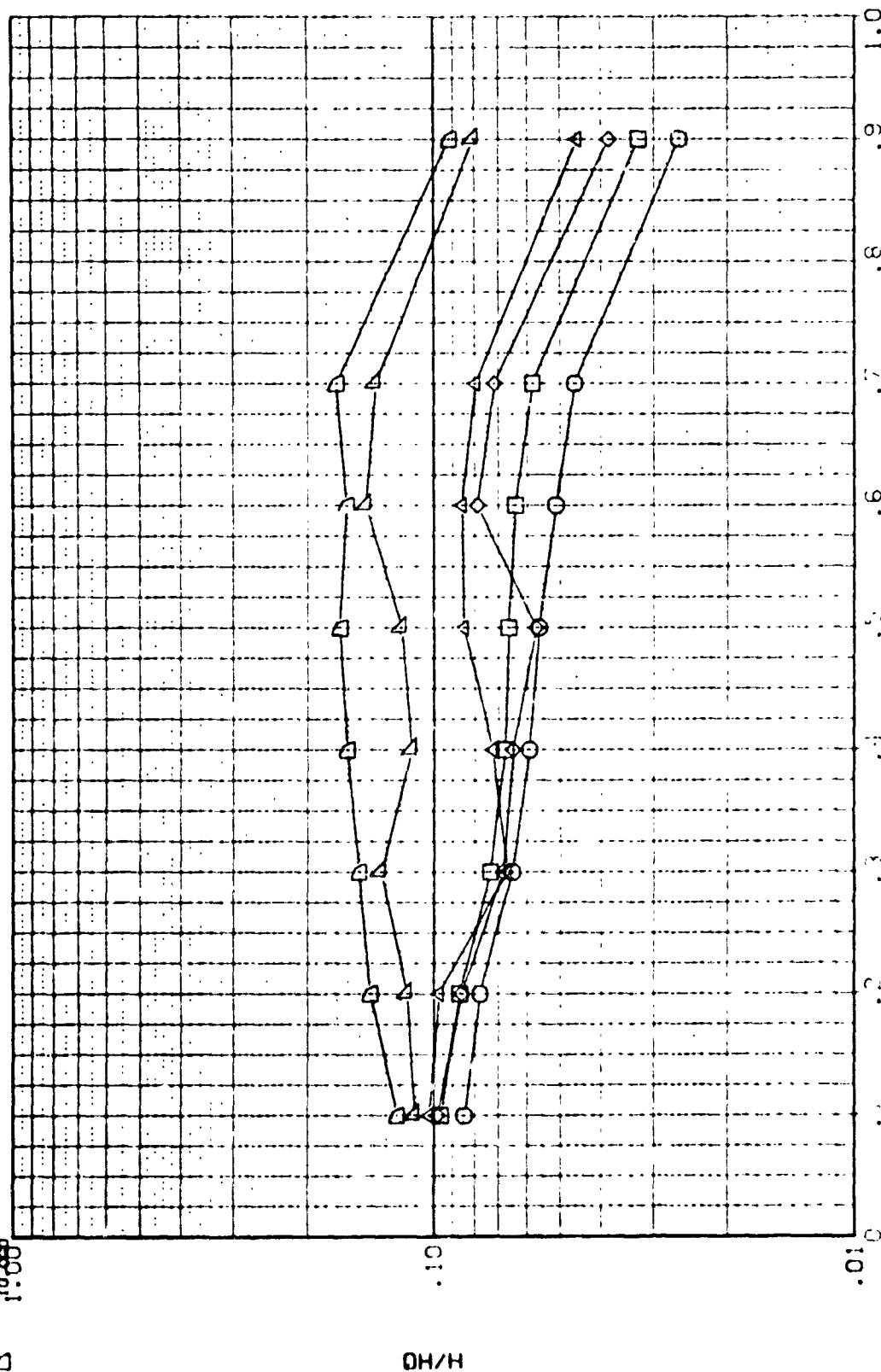


FIG 23 VARIATION OF RN/L ON WING LOWER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLW03) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

PARAMETRIC VALUES
25.000 BETA
8.000

ALPHA
MACH

2Y/B .800
HAW/HT .850

SYMBOL RN/L
1.000
3.000
4.000
5.000
6.000
10.000

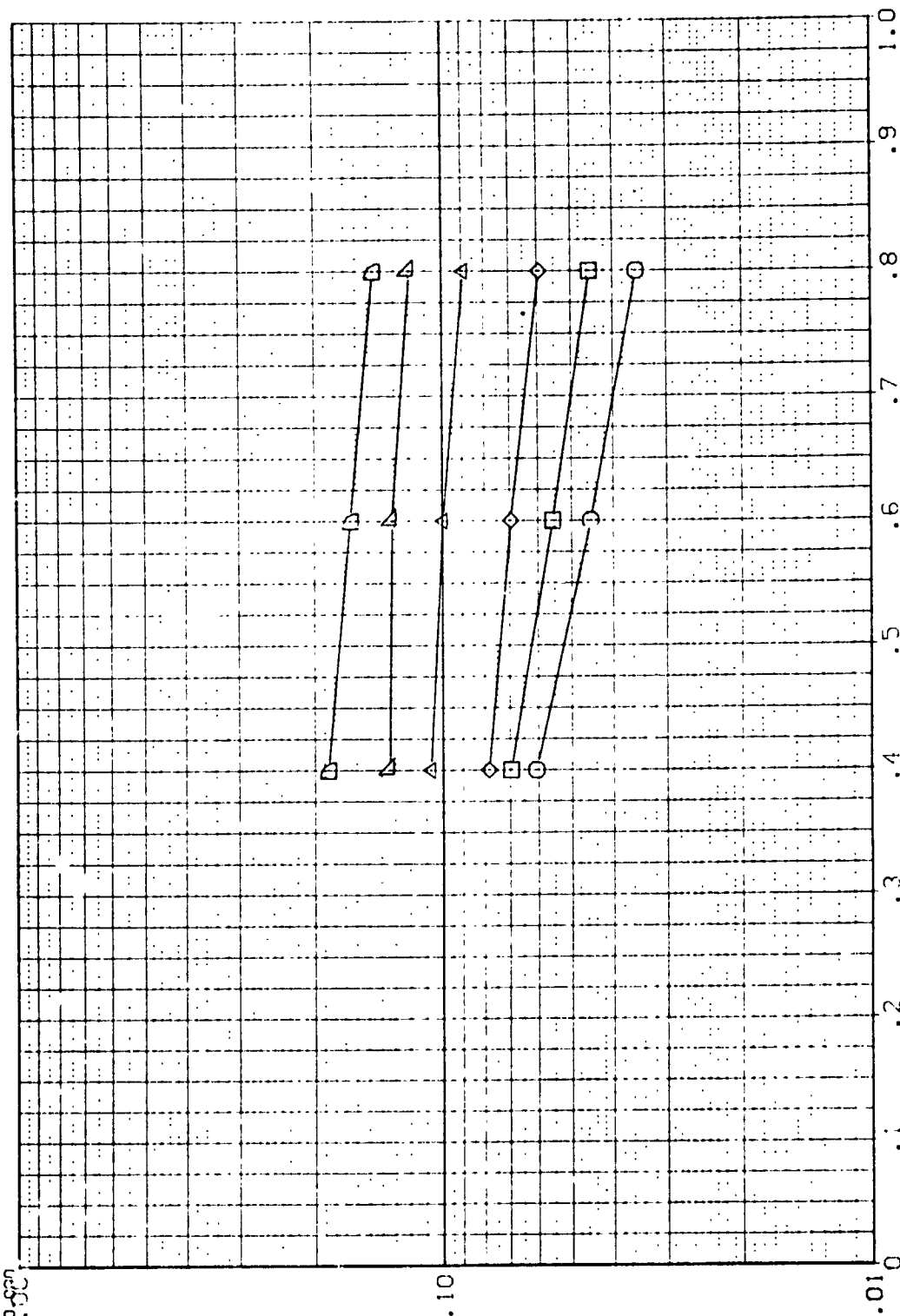


FIG 23 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
VARIATION OF RN/L ON WING LOWER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLW03) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

PARAMETRIC VALUES
ALPHA MACH
25.000 8.000
BETA .000

2Y/B .400 .900
HA# / HT

SYMBOL RN/L
1.000
3.000
4.000
5.000
6.000
10.000

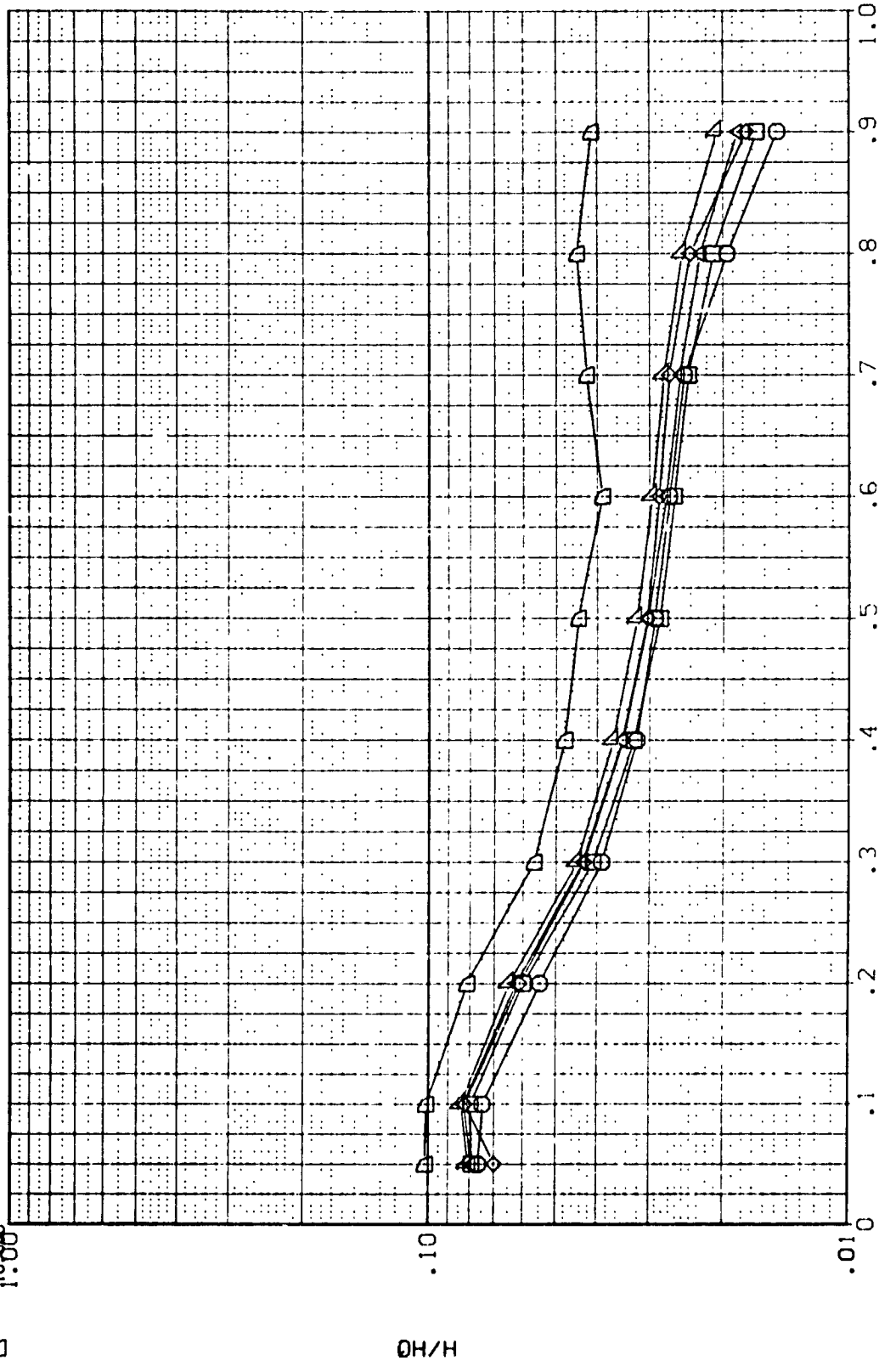


FIG 23 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
VARIATION OF RN/L ON WING LOWER SURFACE AT 25 DEG. ANGLE OF ATTACK

OH14 B22C7F5M4V7W111 WING LOWER SURFACE

(RQLW03)
SYMBOL P1/L
1.000
3.000
4.000
5.000
6.000
10.000

2Y/B .600
HAW/H .900

PARAMETRIC VALUES
ALPHA
HACH
25.000
8.000
BETA
.000

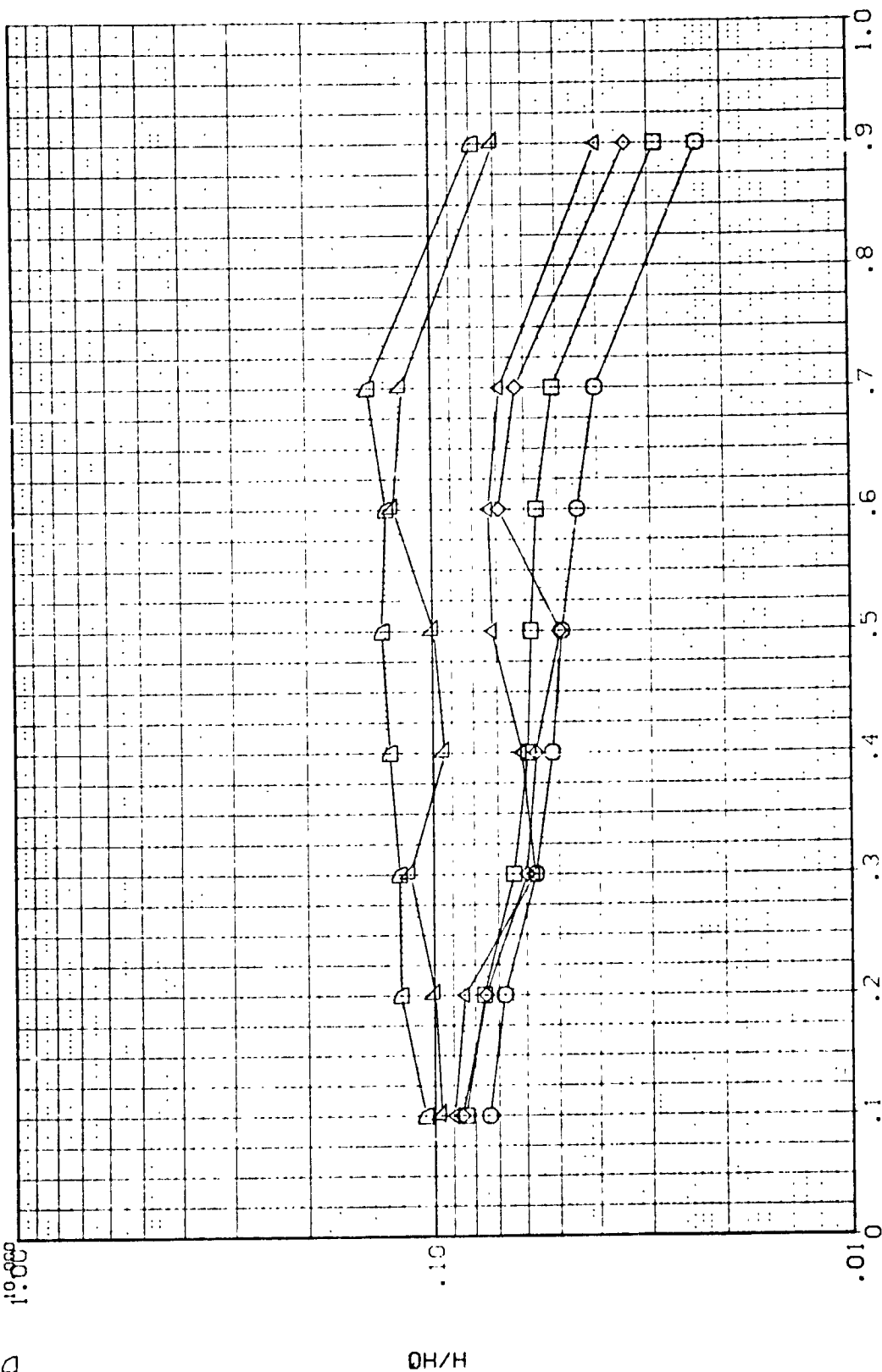


FIG 23 VARIATION OF RN/L ON WING LOWER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLW03) 0H14 B22C7F5M4V7W111 WING LOWER SURFACE

SVBSC-
RN/L
1.000
3.000
4.000
5.000
6.000
7.000
8.000

2Y/B
.800
HAW/HT
.900

PARAMETRIC VALUES
25.000 BETA
8.000

ALPHA
MACH

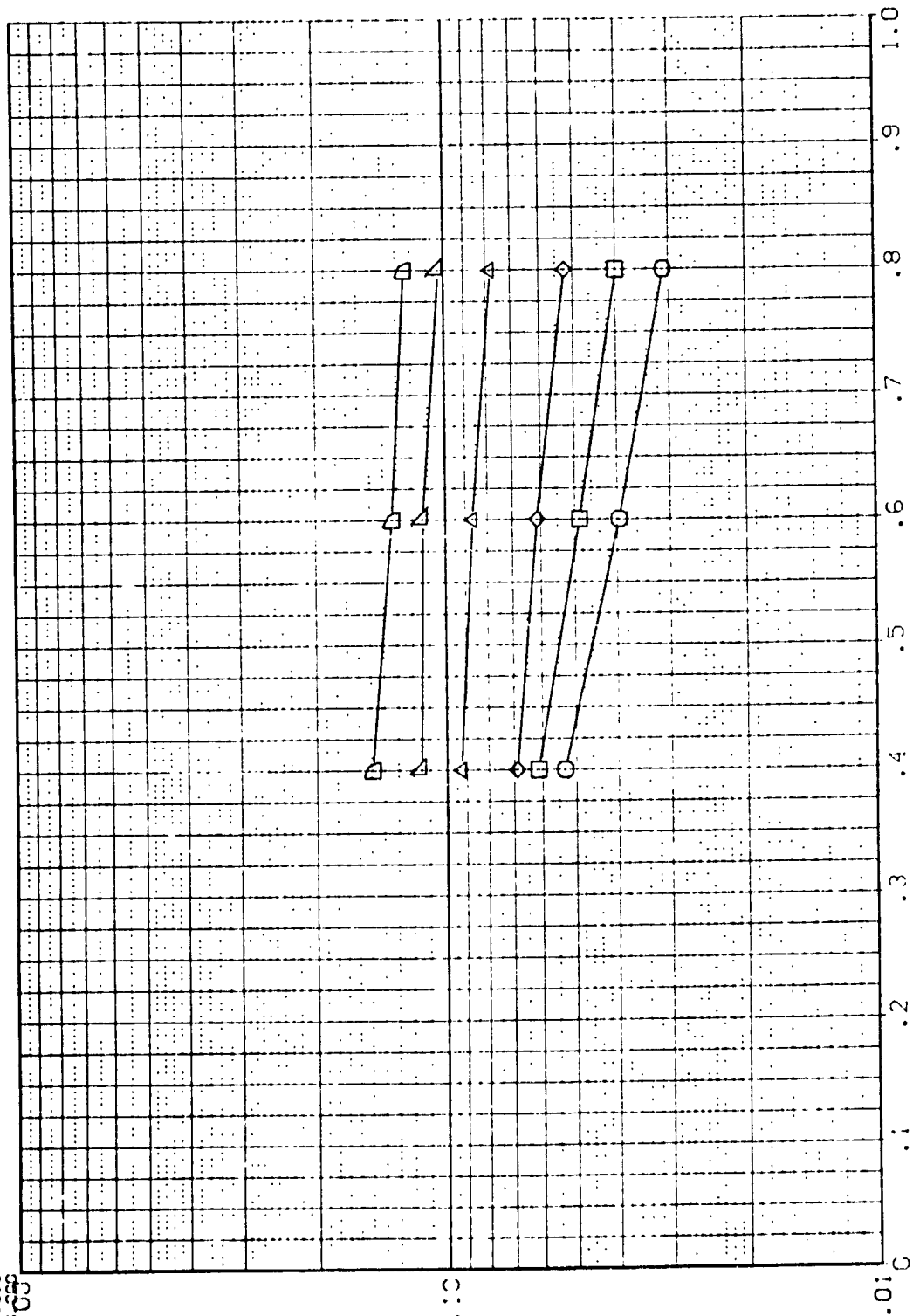


FIG 23 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
VARIATION OF RN/L ON WING LOWER SURFACE AT 25 DEG. ANGLE OF ATTACK

OH14 B22C7F5M4V7W111 WING LOWER SURFACE

(RQLW03) S+BC RN/L 2.7/8 HAW/HT .400 .850
 3.000
 4.000
 5.000
 6.000
 8.000
 10.000

PARAMETRIC VALUES
 ALPHA MACH 25.000 BETA .000

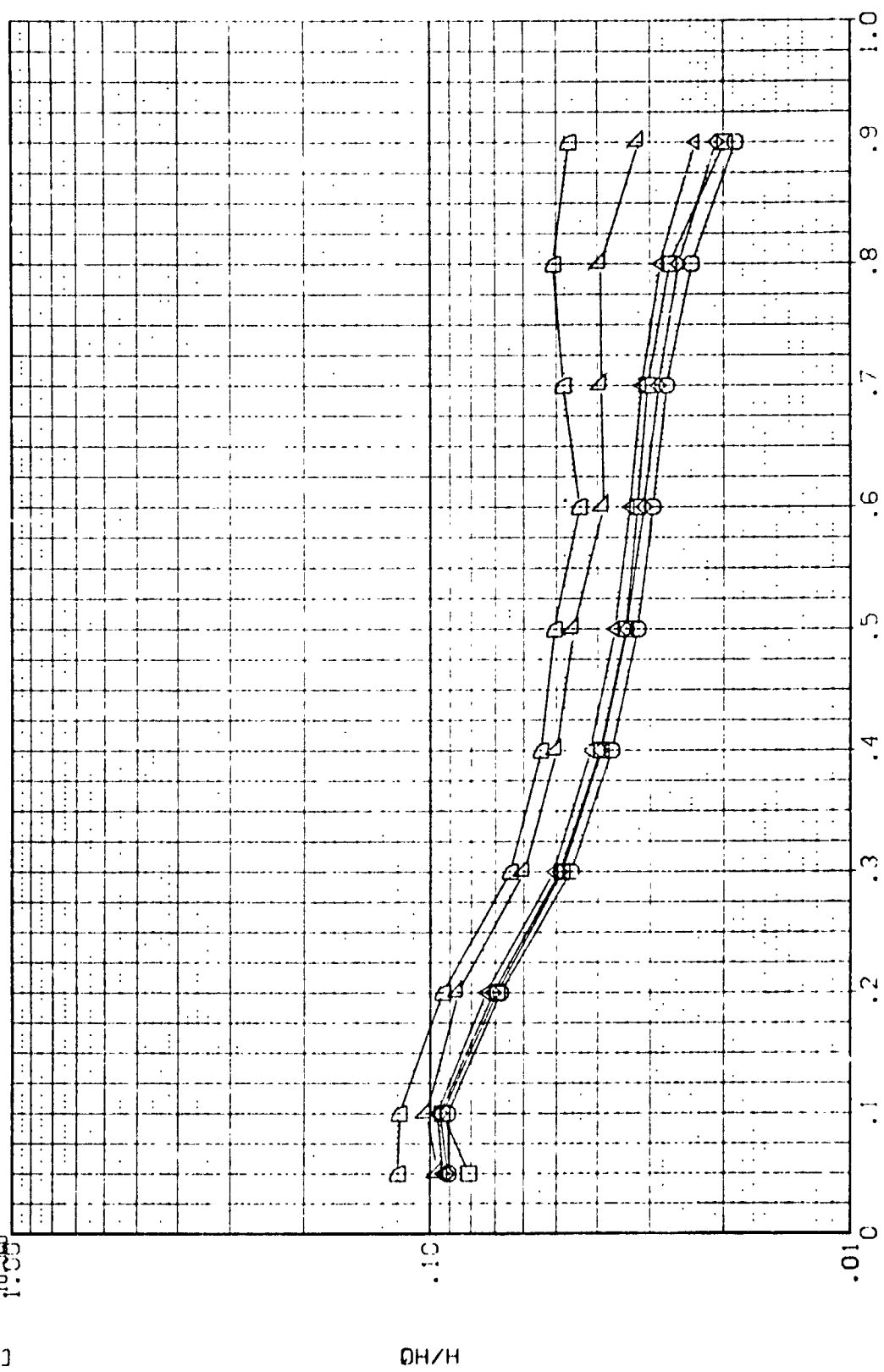


FIG 23 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 VARIATION OF RN/L ON WING LOWER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLW03) 0H14 B22C7FSM4V7W111 WING LOWER SURFACE

SYMBOL RN/L 3.000 4.000 5.000 6.000 8.000 10.000

2V/B .600 HAW/HT .850

PARAMETRIC VALUES ALPHA MACH 25.000 8.000 BETA .000

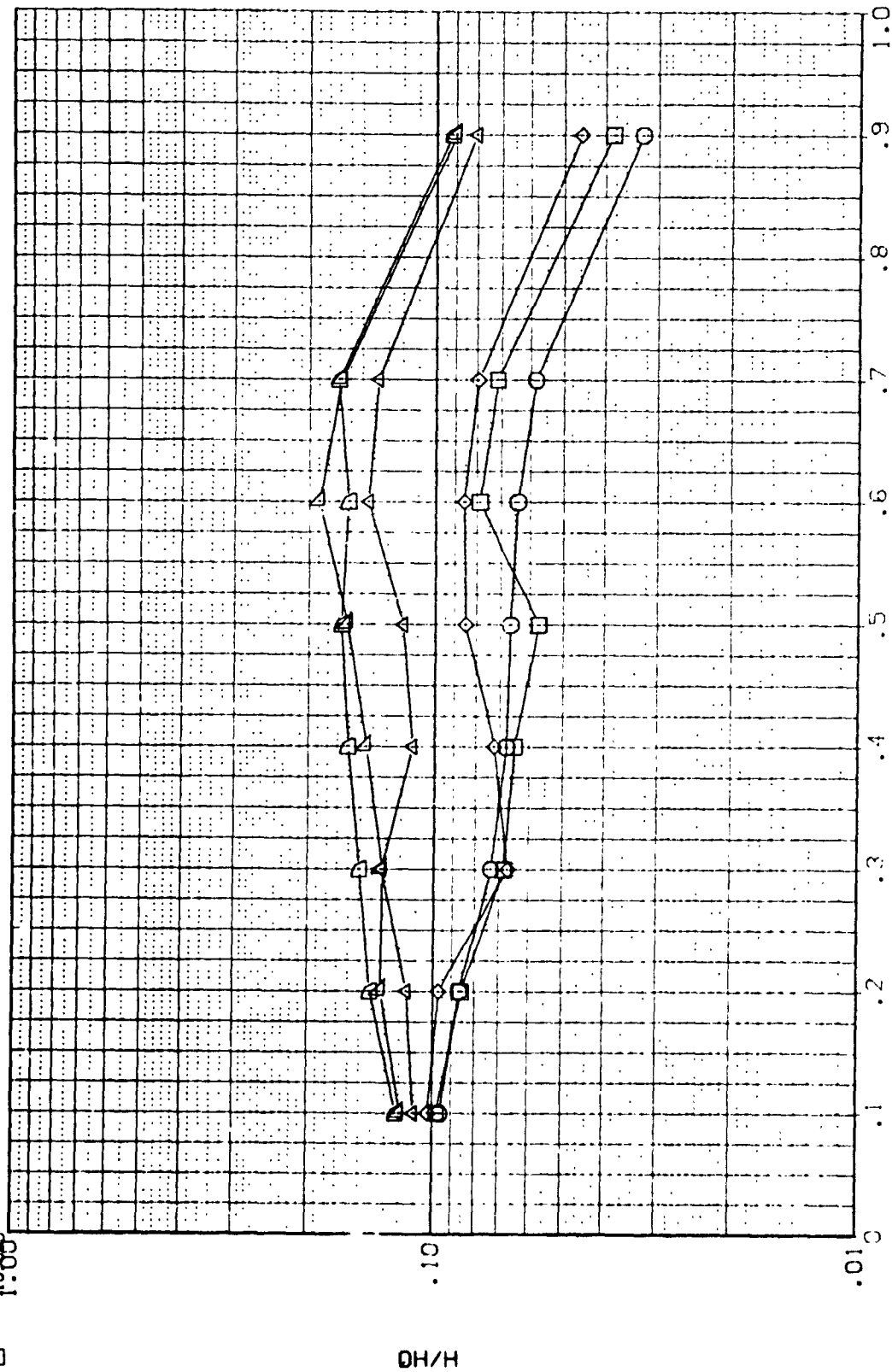


FIG 23 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD VARIATION OF RN/L ON WING LOWER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLW03) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL RN/L 3.000
4.000
5.000
6.000
8.000
10.000

ZY/B .800
HAW/HT .850

PARAMETRIC VALUES
ALPHA 25.000
MACH 8.003
BETA .000

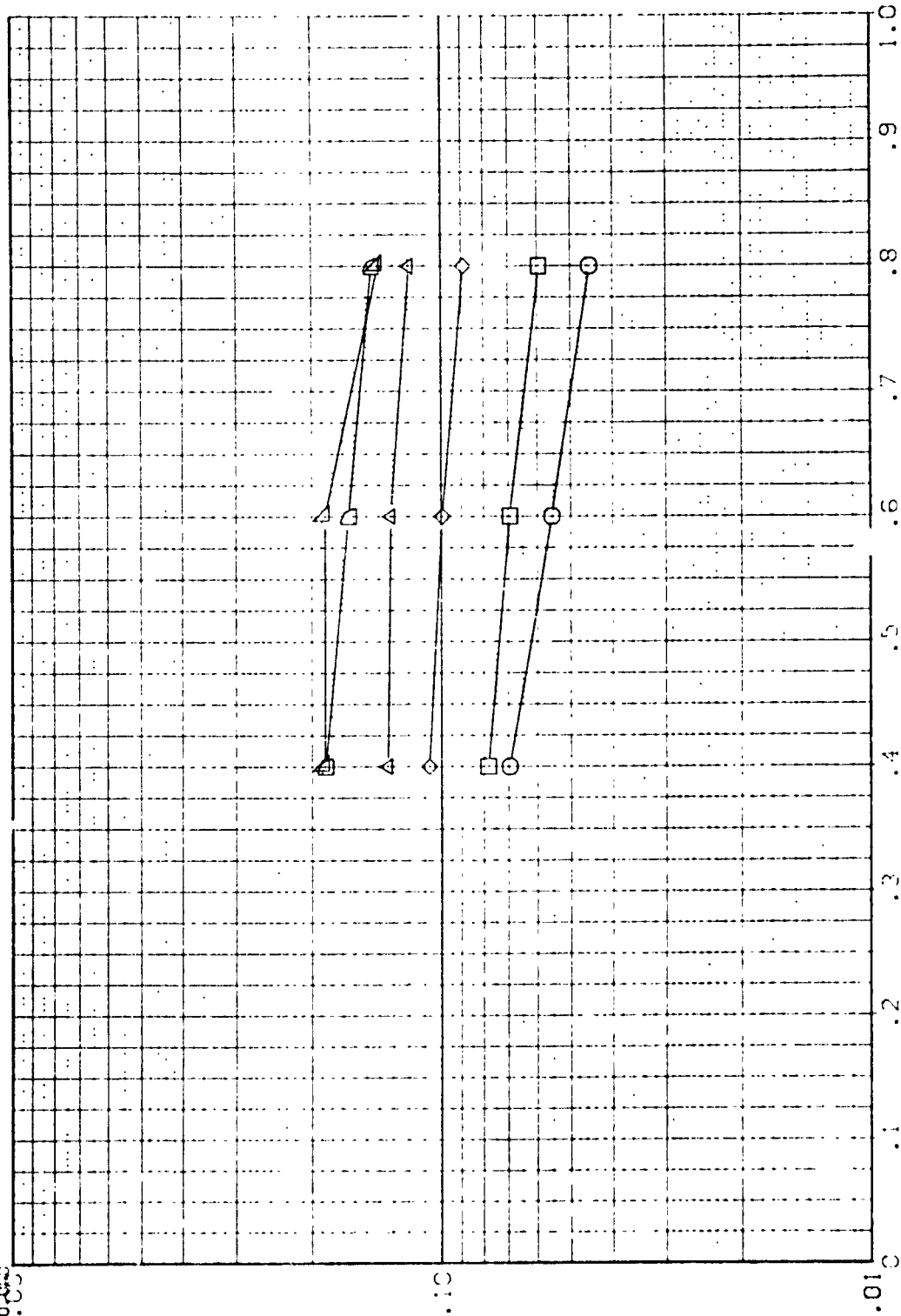


FIG 23 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
VARIATION OF RN/L ON WING LOWER SURFACE AT 25 DEG. ANGLE OF ATTACK

[RQLW03] 0H14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL
 RN/L
 3.000
 4.000
 5.000
 6.000
 8.000
 10.000

ZY/B
 .400
 .900

PARAMETRIC VALUES
 ALPHA
 MACH
 25.000
 8.000
 .000

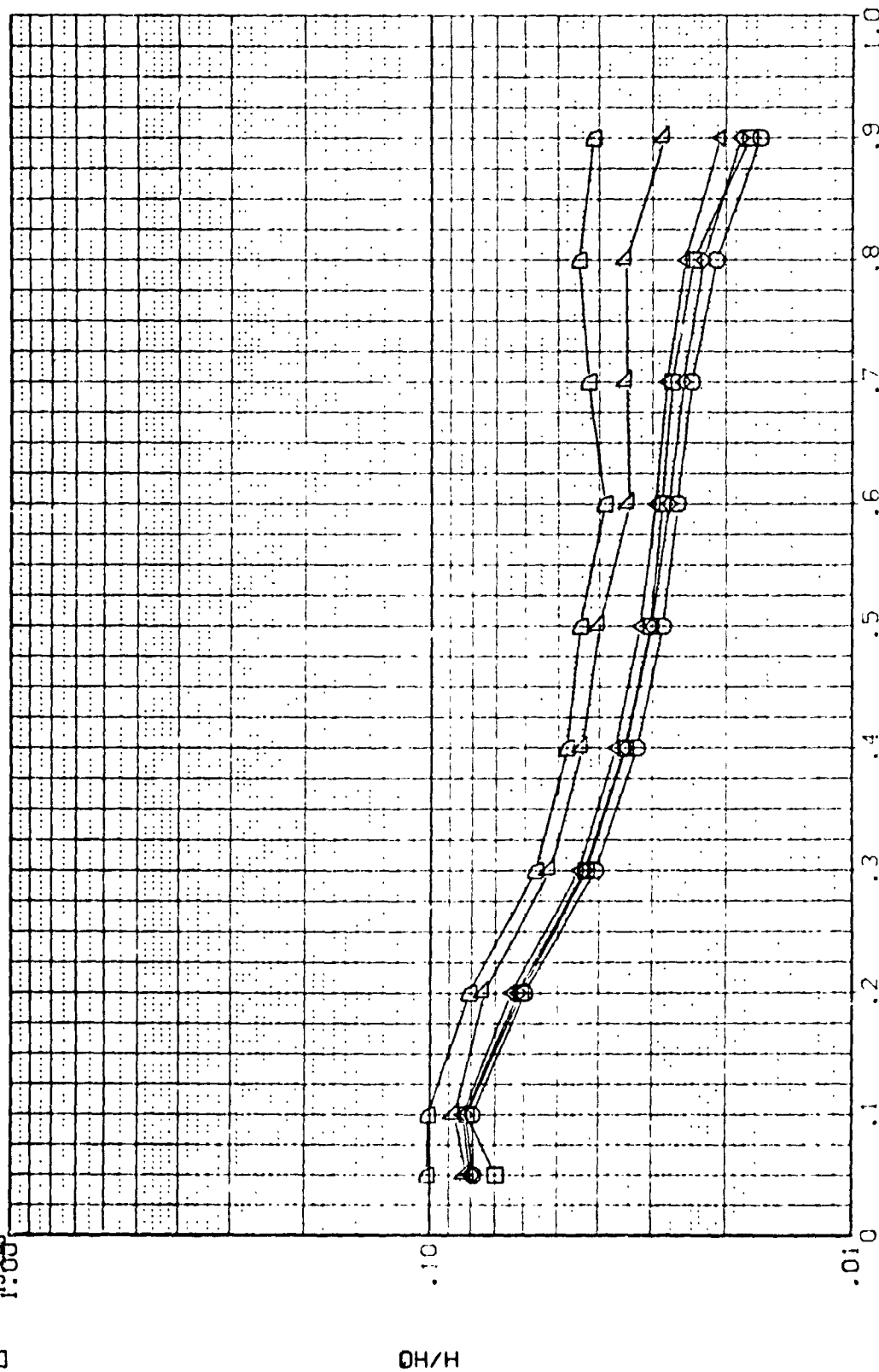


FIG 23 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
 VARIATION OF RN/L ON WING LOWER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLW03) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL RN/L
 3.000
 4.000
 5.000
 6.000
 8.000
 10.000

2Y/B .600
 HAW/HT .900

PARAMETRIC VALUES
 ALPHA MACH
 25.000
 8.000
 .000

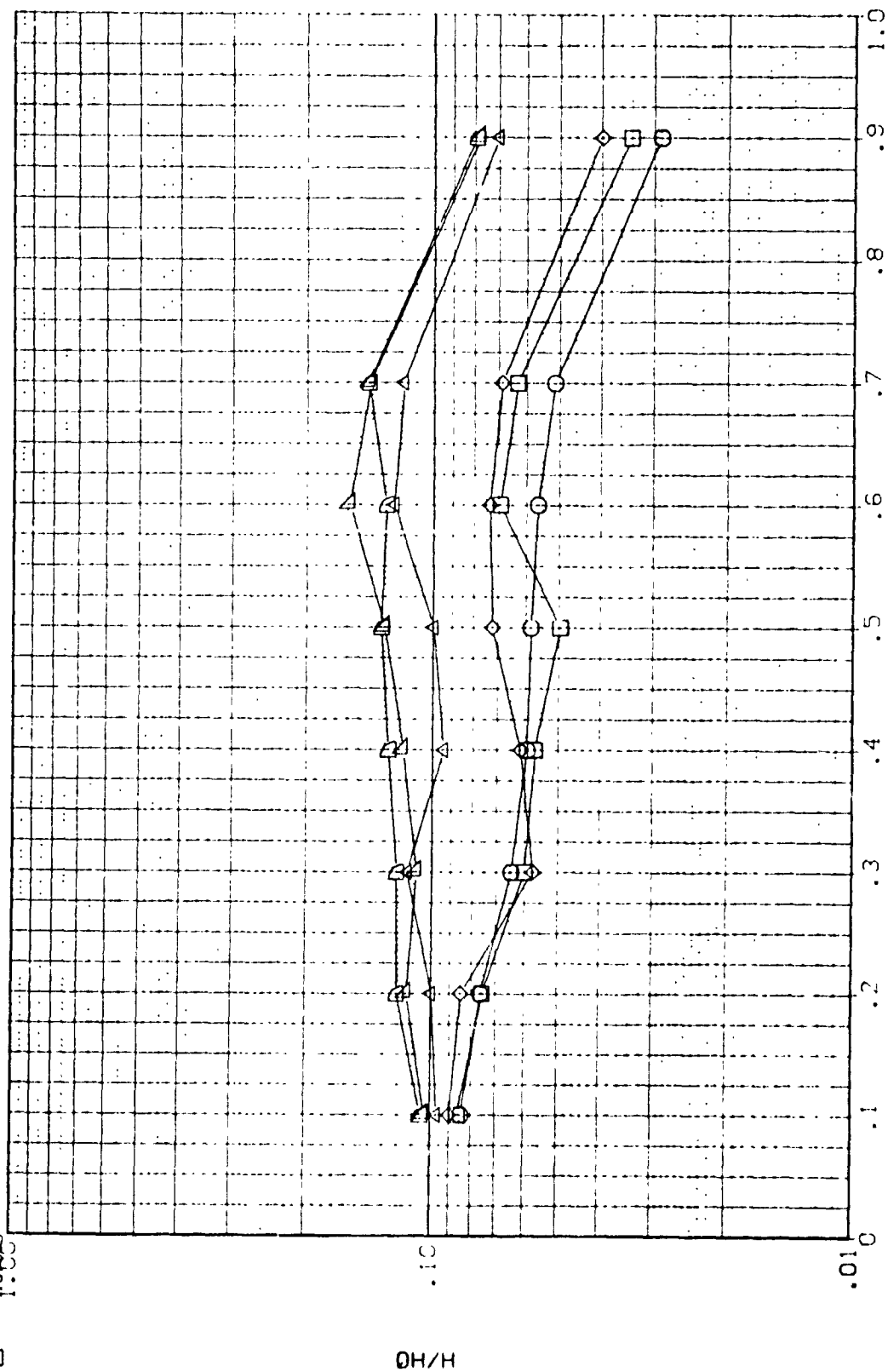


FIG 23 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 VARIATION OF RN/L ON WING LOWER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLW03) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL R/L 2Y/B HAV/HT
 3.000
 4.000
 5.000
 6.000
 8.000
 10.000

PARAMETRIC VALUES
 ALPHA MACH
 25.000 8.000
 BETA .000

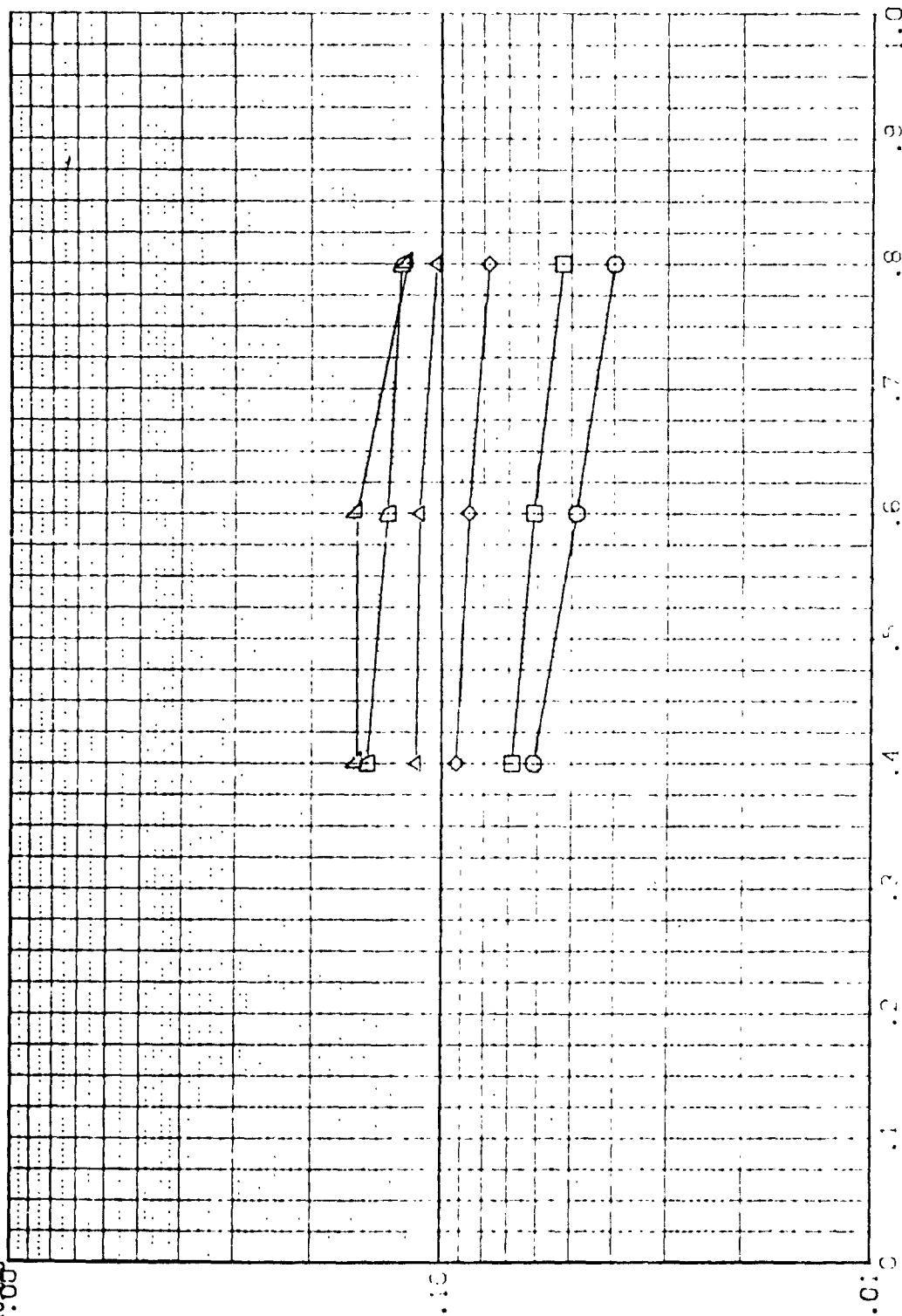


FIG 23 LONGITUDINAL WING STATION. X/C. FRACTION OF LOCAL WING CHORD
 VARIATION OF RN/L ON WING LOWER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLS03) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
ALPHA 25.000
MACH 8.000
BETA .000

V.P. 375.000
HAW/HT .850

SV332
RN/L
1.000
3.000
4.000
5.000
6.000
19.000

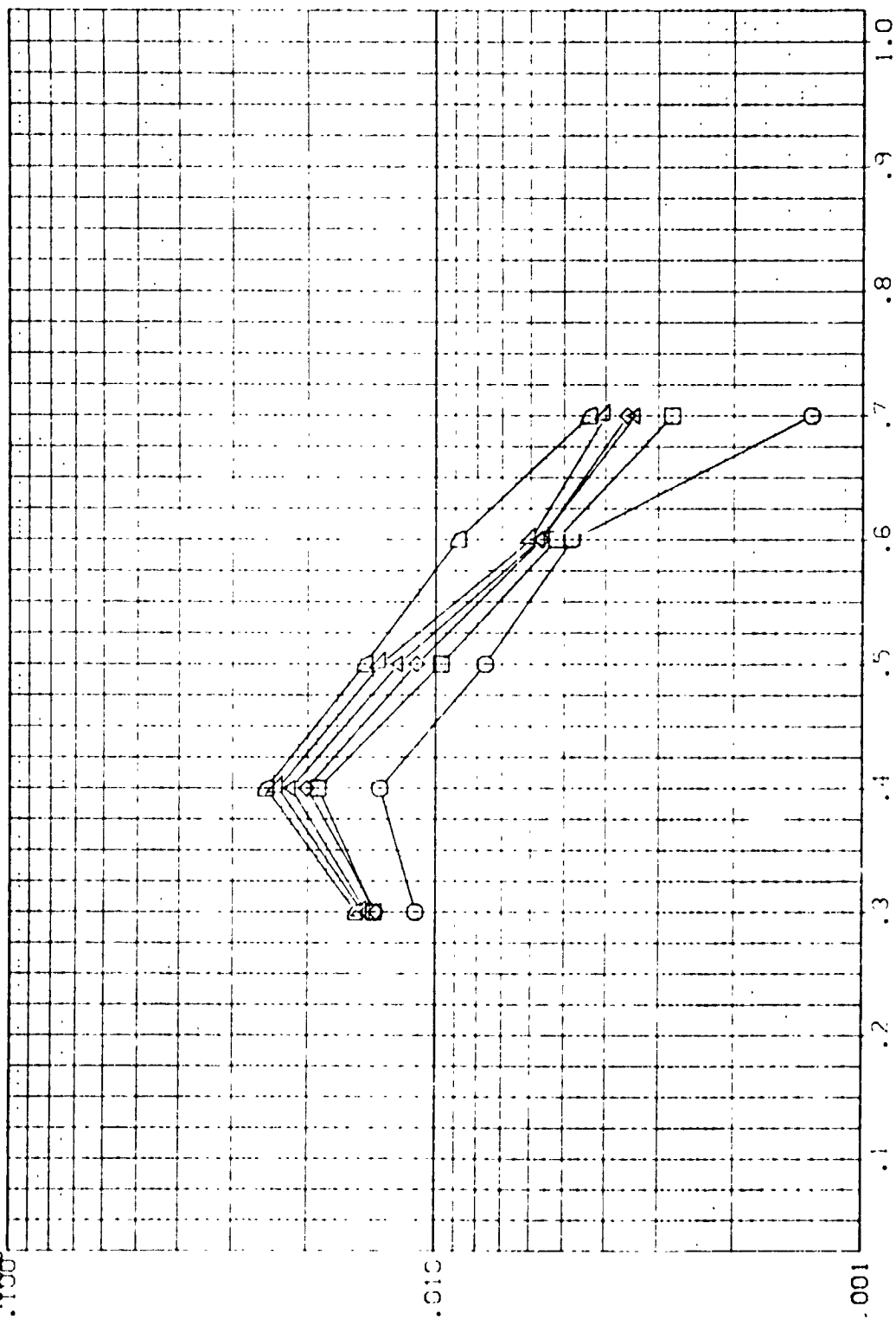


FIG 24 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLS03) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
25.000 BETA .000
8.000

ALPHA
MACH

V.P. 400.000
MACH .850

SYMBOL RN/L
1.000
3.000
4.000
5.000
6.000
10.000

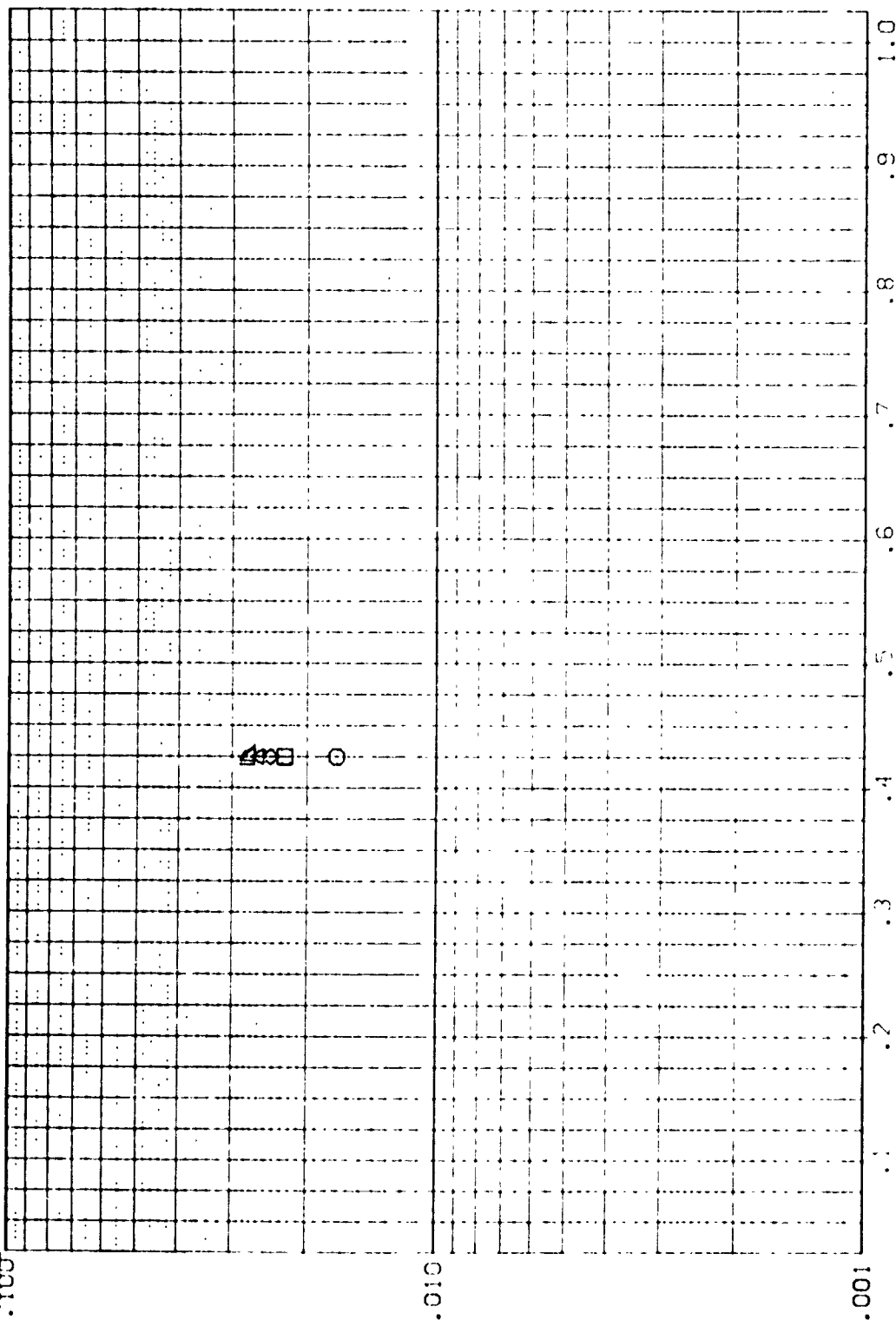


FIG 24 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 25 DEG. ANGLE OF ATTACK

(R0LS03) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL
 1.000
 2.000
 3.000
 4.000
 5.000
 6.000
 7.000
 8.000
 9.000
 10.000

U.P.
 465.300
 465.300
 465.300
 465.300
 465.300
 465.300
 465.300
 465.300
 465.300
 465.300

PARAMETRIC VALUES
 25.000
 8.000
 ALPHA
 MACH

.000

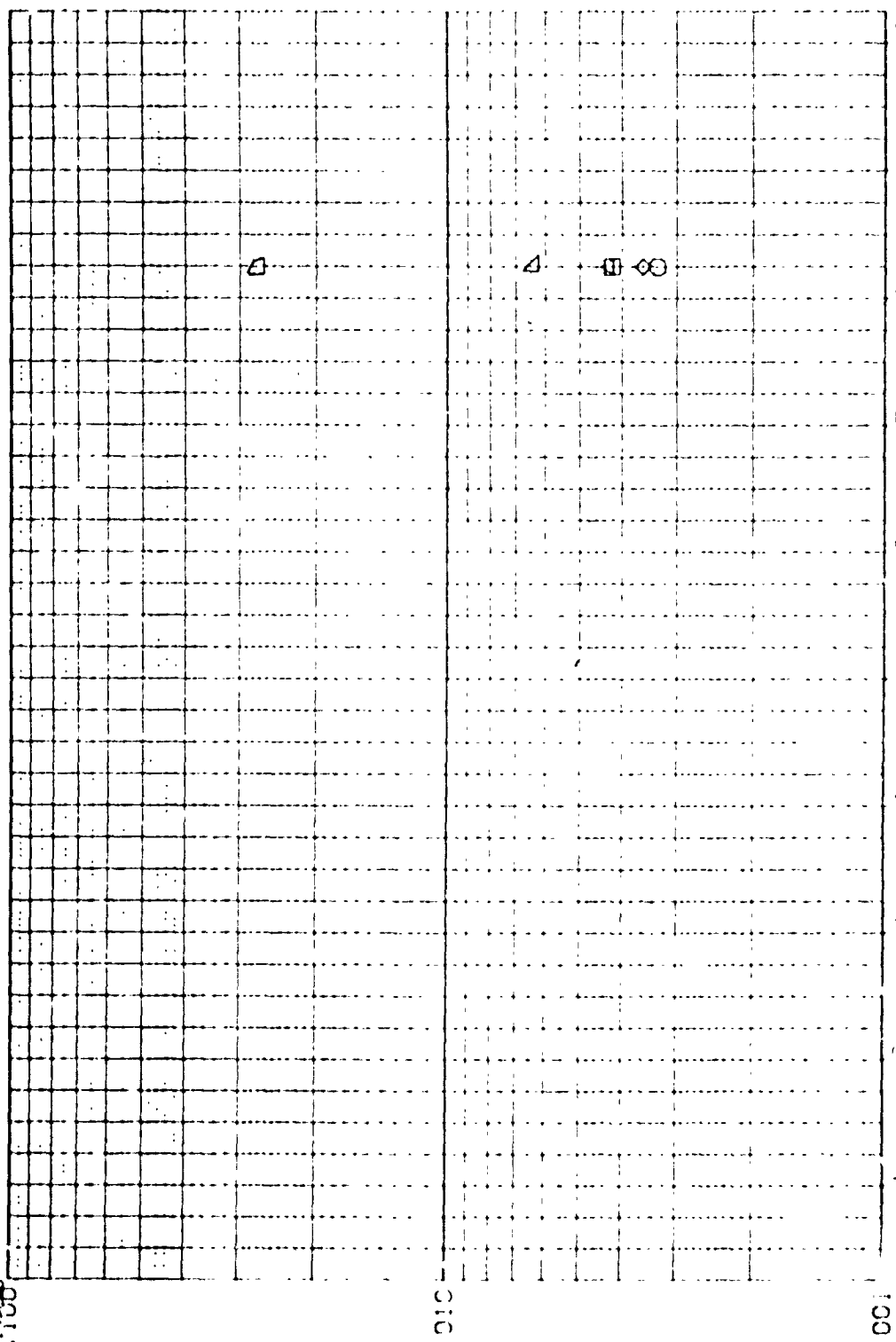


FIG 24 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLS03) UH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 25.000 BETA
 8.000

ALPHA
 MACH

V.P.
 501.000
 HAW/HT
 .850

SYMBOL
 RN/L
 1.000
 3.000
 4.000
 5.000
 6.000
 10.000

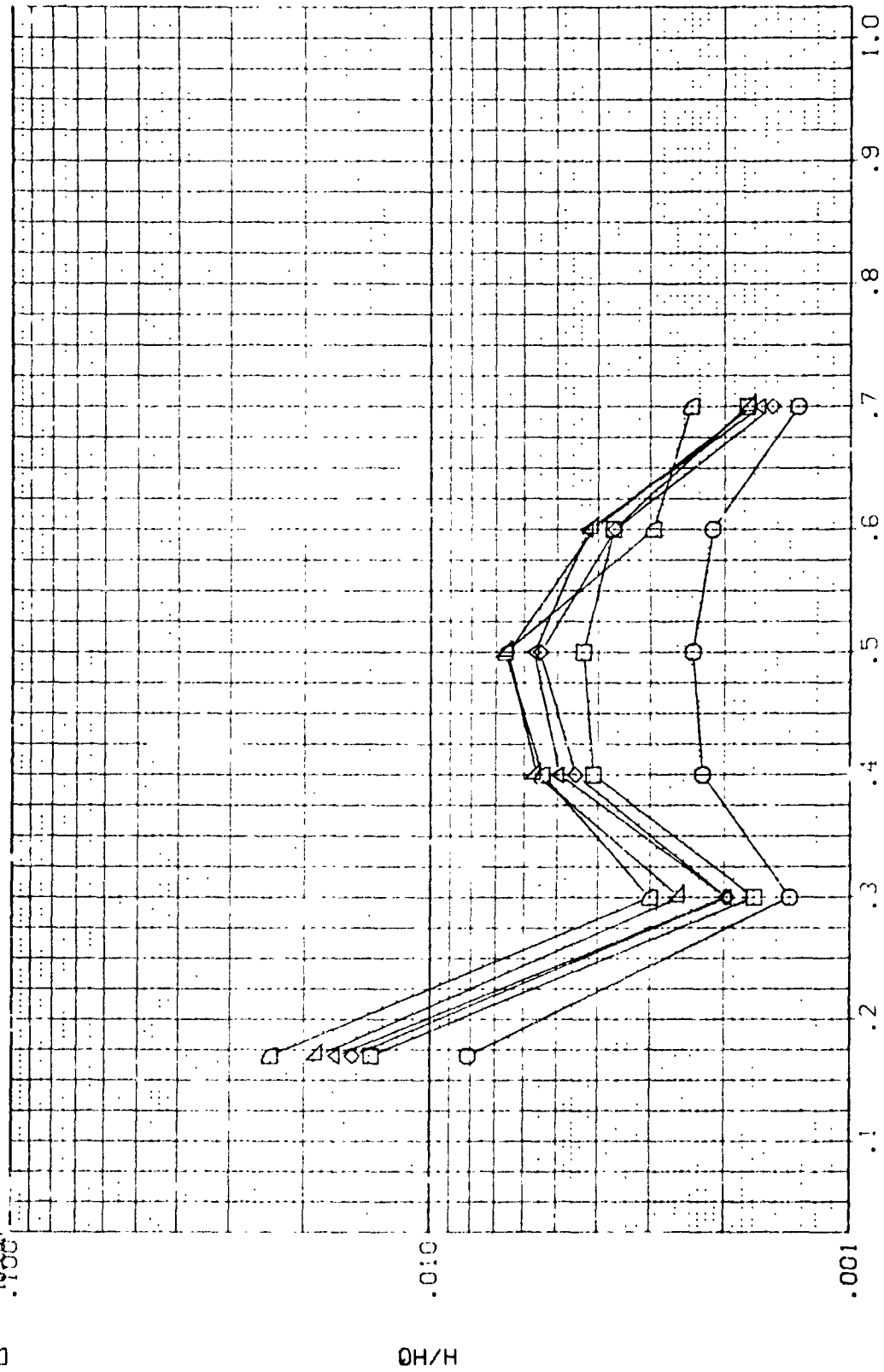


FIG 24 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 25 DEG. ANGLE OF ATTACK

QH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

(RQLS03)
SYMBOL
RN/L
1.000
3.000
4.000
5.000
6.000
10.000

W.P.
375.000
HAW/HT
.900

ALPHA
MACH

PARAMETRIC VALUES
25.000 BETA
8.000

.000

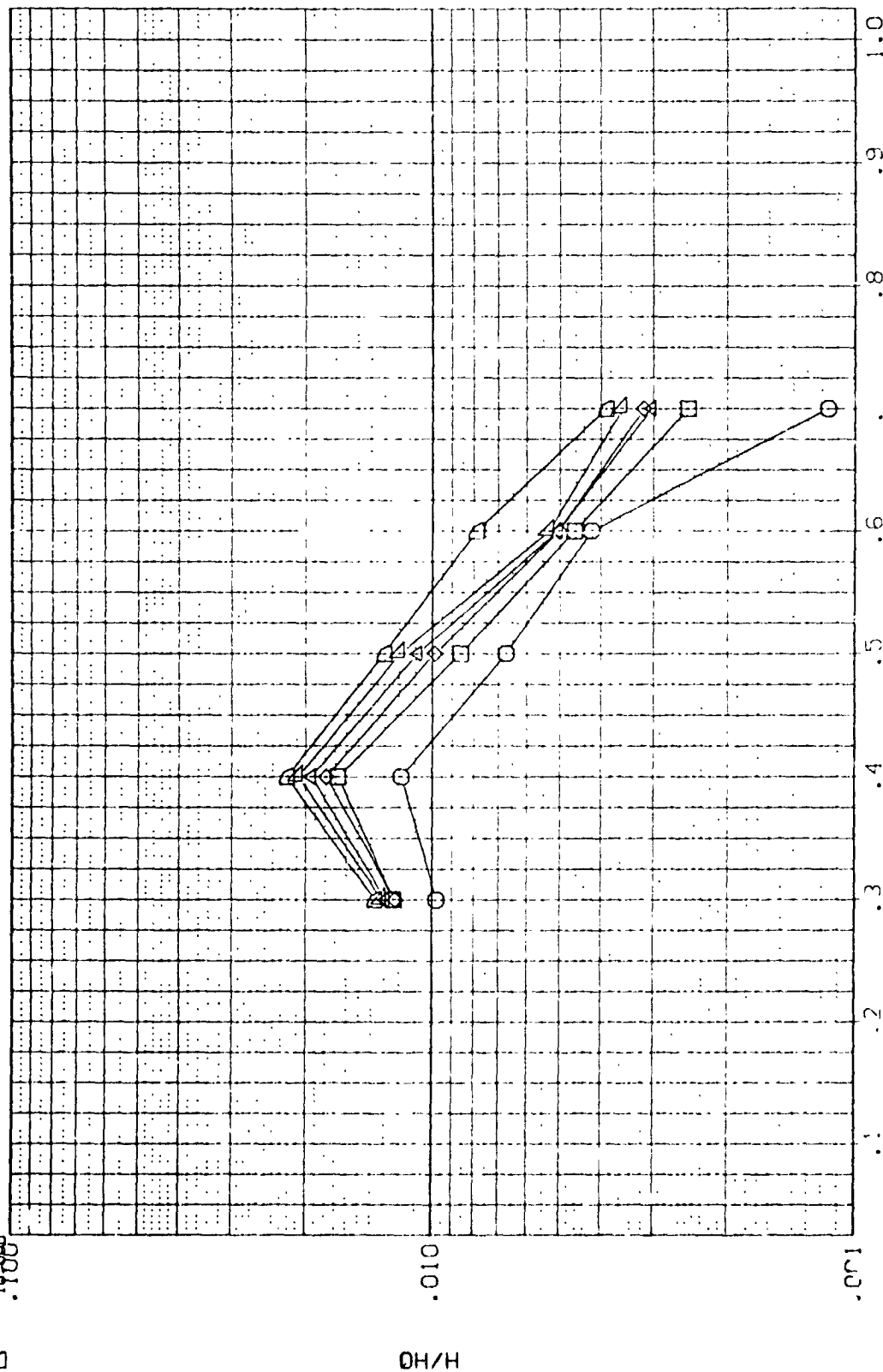


FIG 24 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLS03) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL
 1.000
 3.000
 4.000
 5.000
 6.000
 19.000

V.P.
 401.000
 HAW/HT
 .900

PARAMETRIC VALUES
 25.000 BETA
 8.000
 .000

ALPHA
 MACH

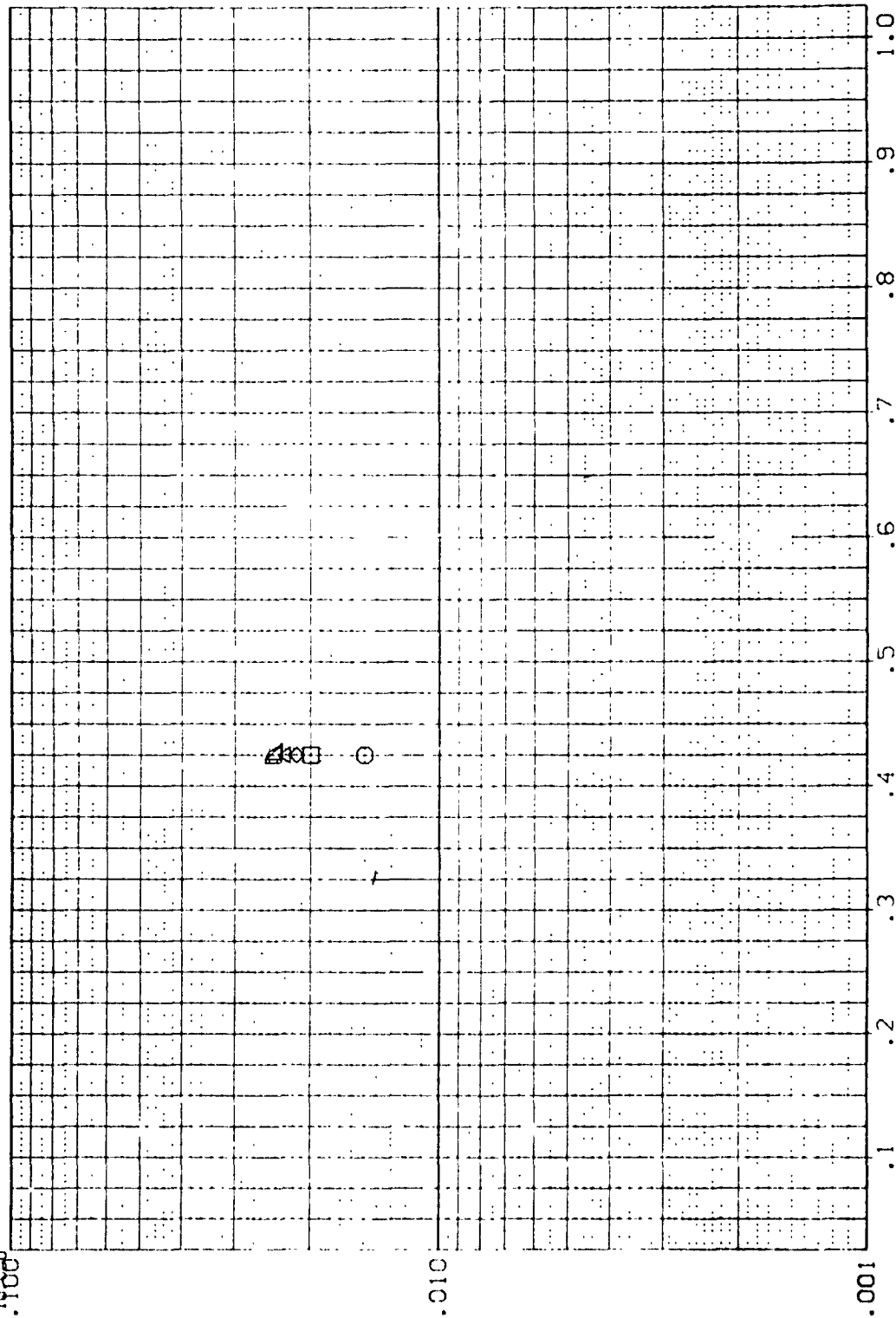


FIG 24 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLS03) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
25.000 BETA
8.000

ALPHA
MACH

W.P.
425.000
HAW/HT
.900

SYMBOL RN/L
1.000
3.000
4.000
5.000
6.000
10.000

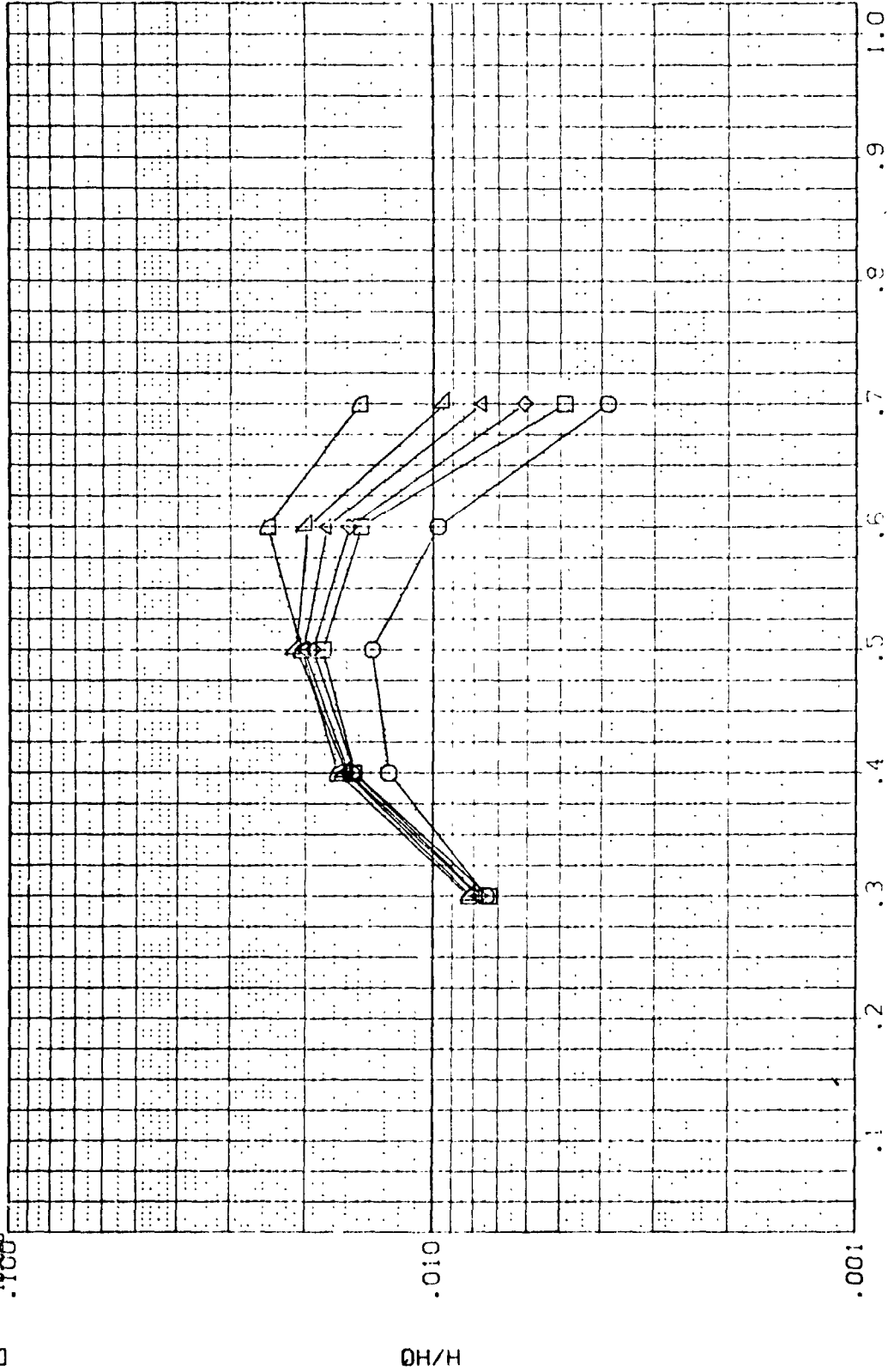


FIG 24 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLS03) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL RV/L
1.000
3.000
4.000
5.000
6.000
12.000

V.P. 465.000
HAW/HT .900

PARAMETRIC VALUES
ALPHA MACH
25.000 8.000
BETA .000

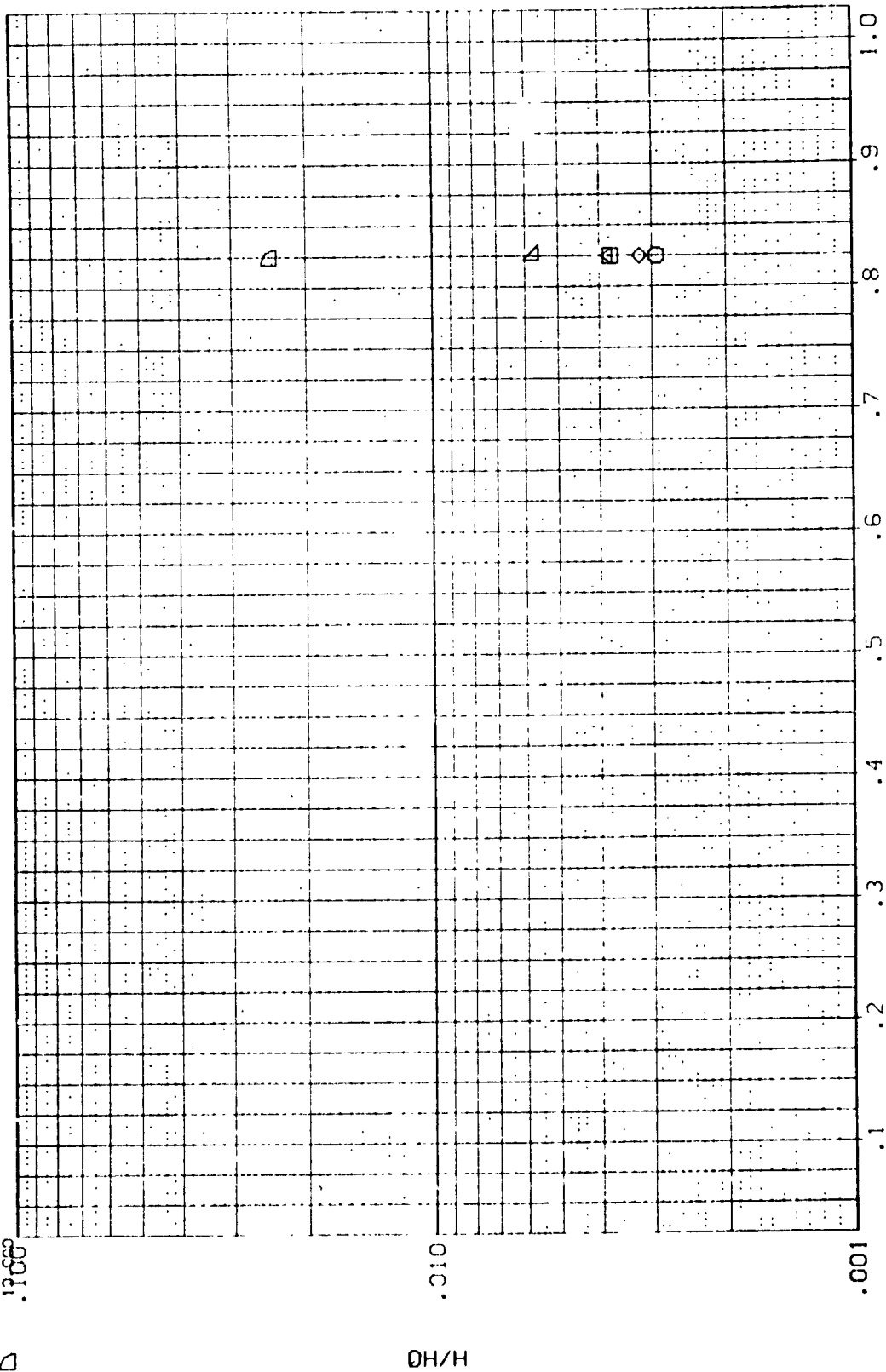


FIG 24 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLS03) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
ALPHA MACH
25.000 BETA
8.000

SYMBOL RN/L V.P. HAW/HIT
1.000 50:1.000 .900
3.000
4.000
5.000
6.000
10.000

□ ◇ △ ▽ ▹ ▸

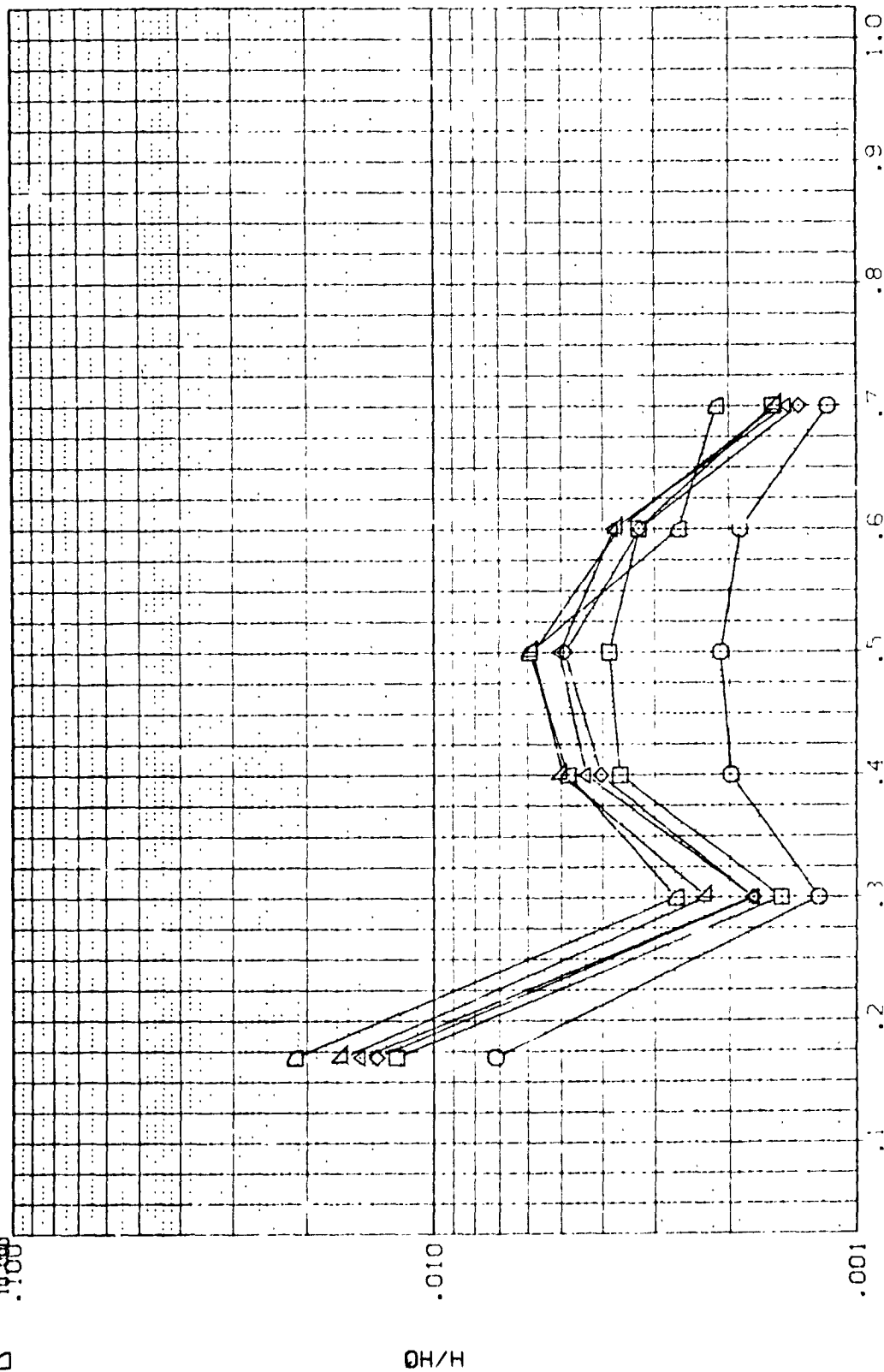


FIG 24 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLS03) 0H14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE

SYMBOL RN/L V.P. HAW/HT
 3.000
 4.000
 5.000
 6.000
 8.000
 10.000

PARAMETRIC VALUES
 ALPHA MACH
 25.000 8.000
 BETA .000

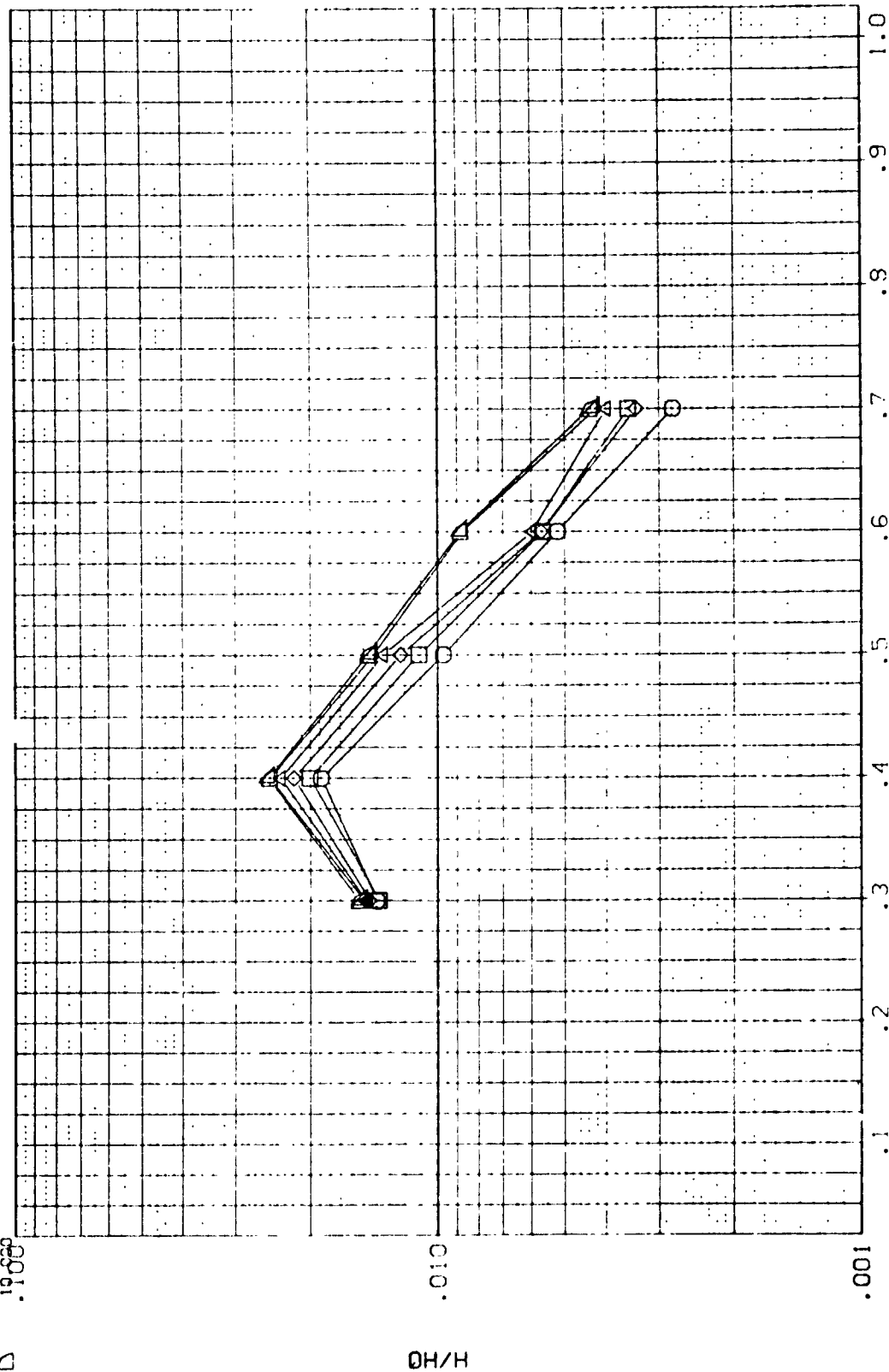


FIG 24 LONGITUDINAL FUSELAGE S.ATION. X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLS03) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 25.000 BETA
 8.000
 ALPHA
 MACH

W.P. 400.000
 HAN/HT .850

SYMBOL RN/L
 3.000
 4.000
 5.000
 6.000
 8.000
 10.000

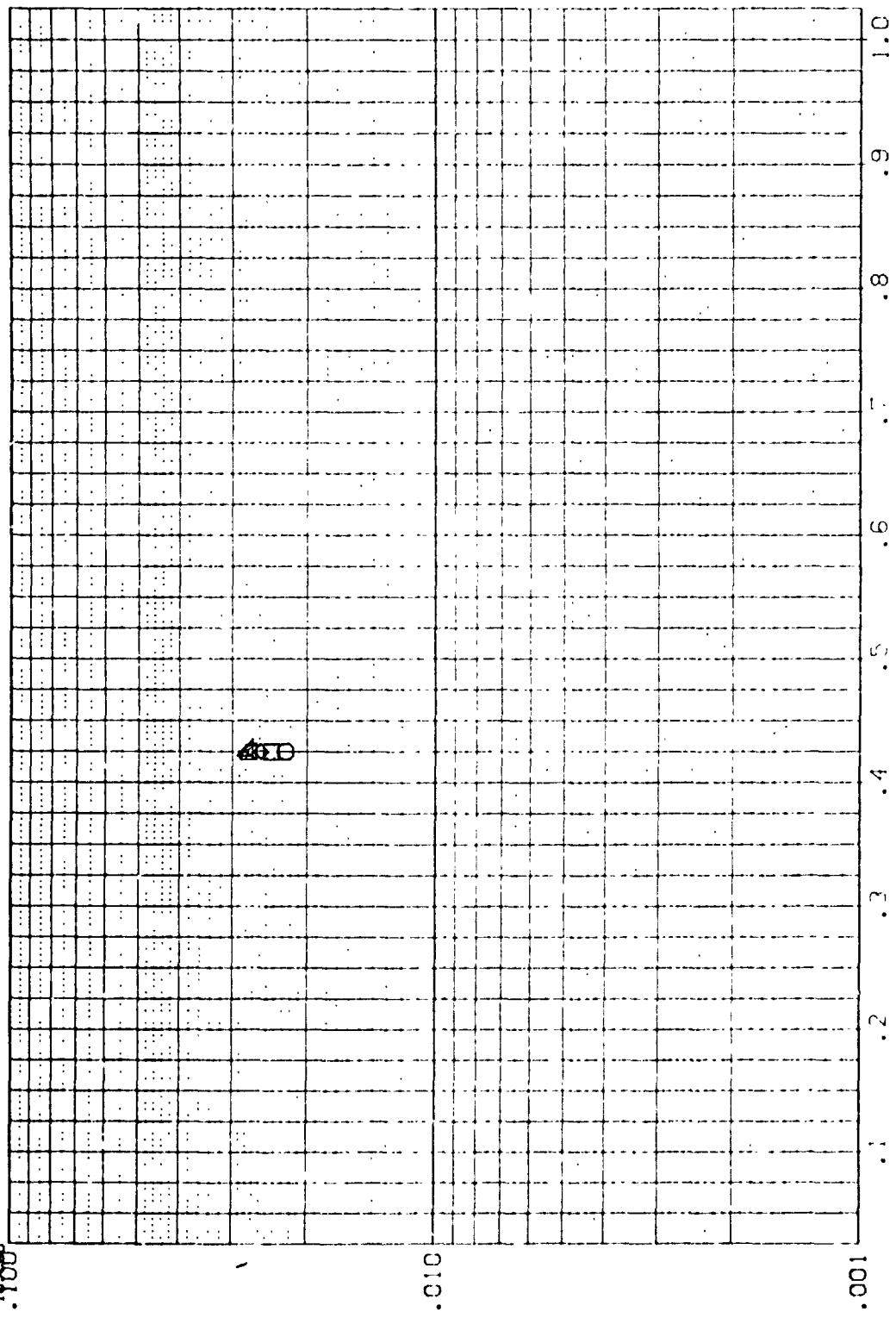


FIG 24 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLS03) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SVBCL R/V/L
3.000
4.000
5.000
6.000
8.000
19.000

V.P. 425.000
HAW/HT .850

PARAMETRIC VALUES
ALPHA MACH 25.000 8.000 BETA .000

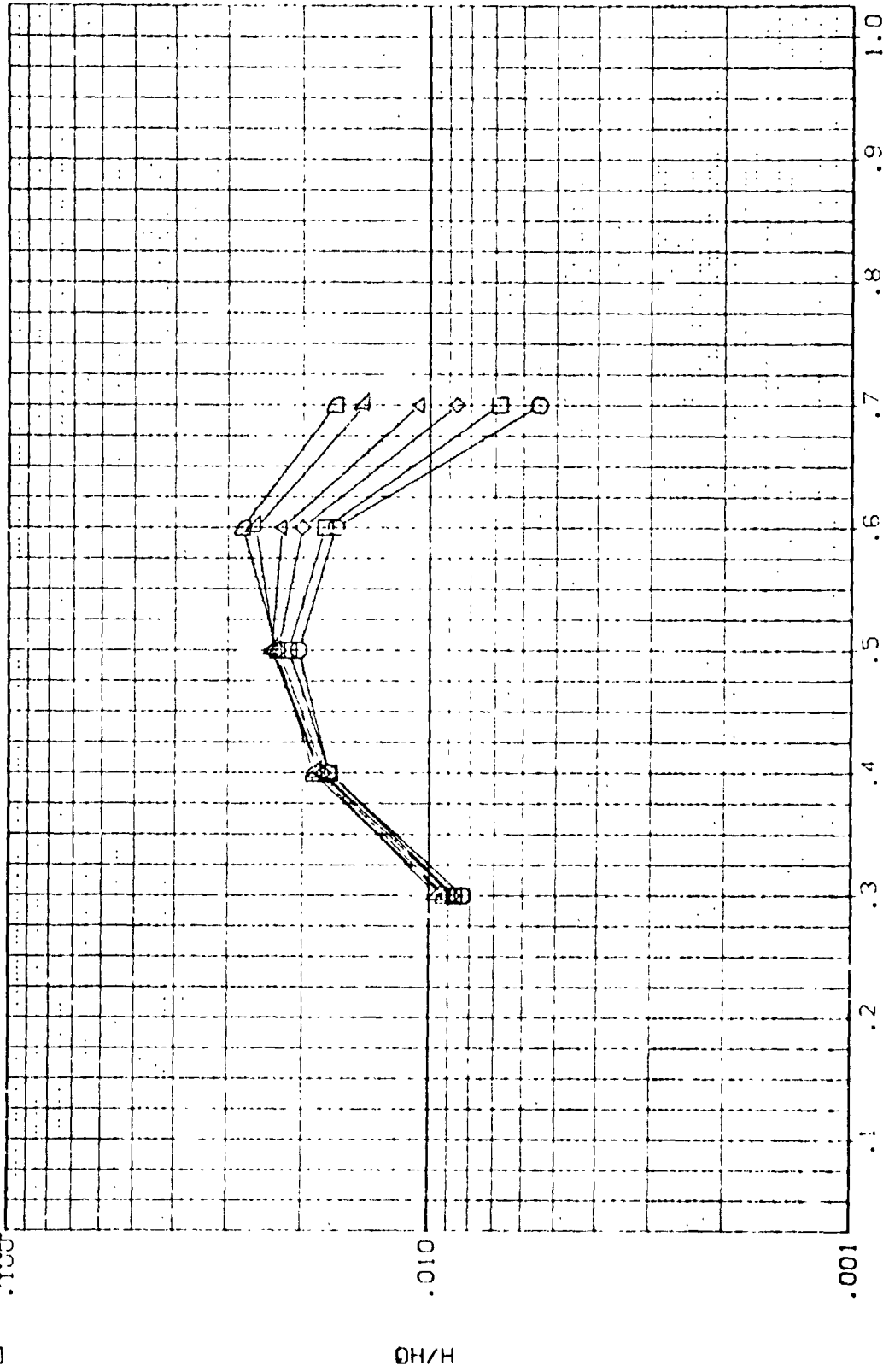


FIG 24 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RGLS03) OH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
ALPHA MACH
25.000 BETA
8.000

W.P.
465.000
MACH/MT
.850

SYMBOL
RN/L
3.000
4.000
5.000
6.000
8.000
10.000

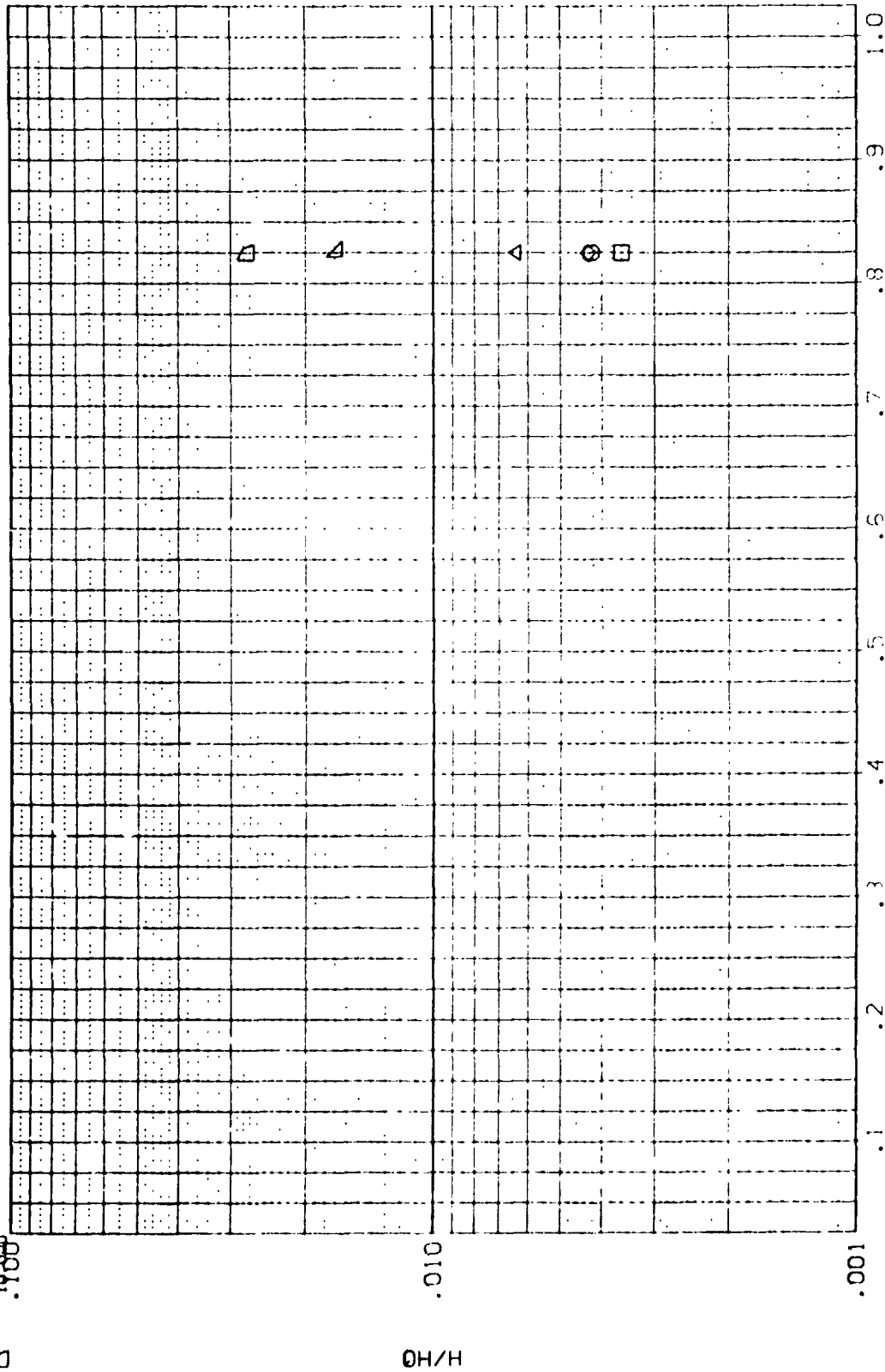


FIG 24 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLS03) OH-14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 ALPHA 25.000
 MACH 8.000
 BETA .000

501.000
 V.P.
 HAW/HT .850

PN/L
 3.000
 4.000
 5.000
 6.000
 8.000
 10.000

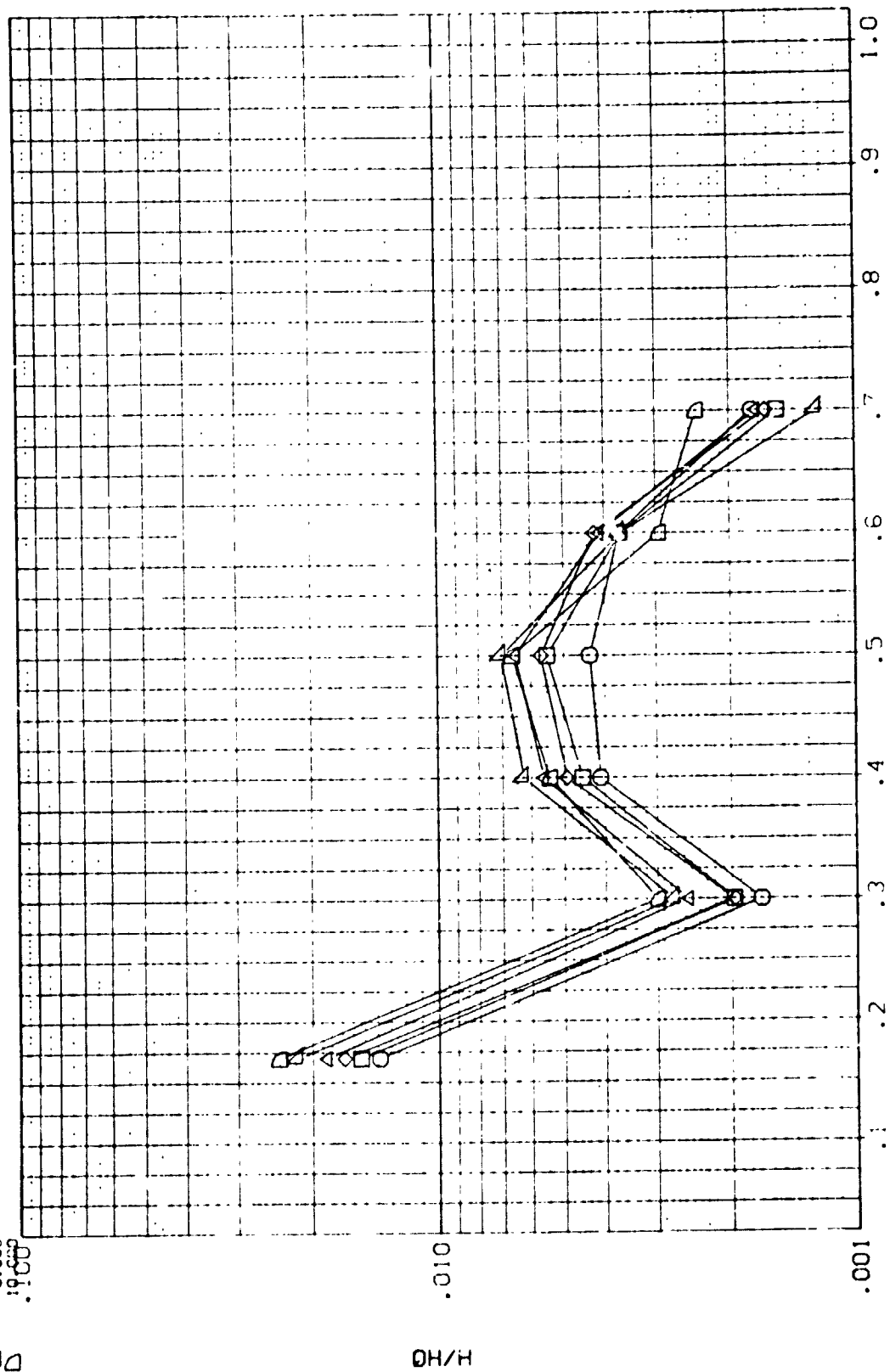


FIG 24 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 25 DEG. ANGLE OF ATTACK

OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

(ROLS03)
SYMBOL
RN/L
3.000
4.000
5.000
6.000
8.000
10.000

M.P.
375.000
M.A.S. AT
.900

PARAMETRIC VALUES
ALPHA
MACH
25.000
8.000
BETA
.000

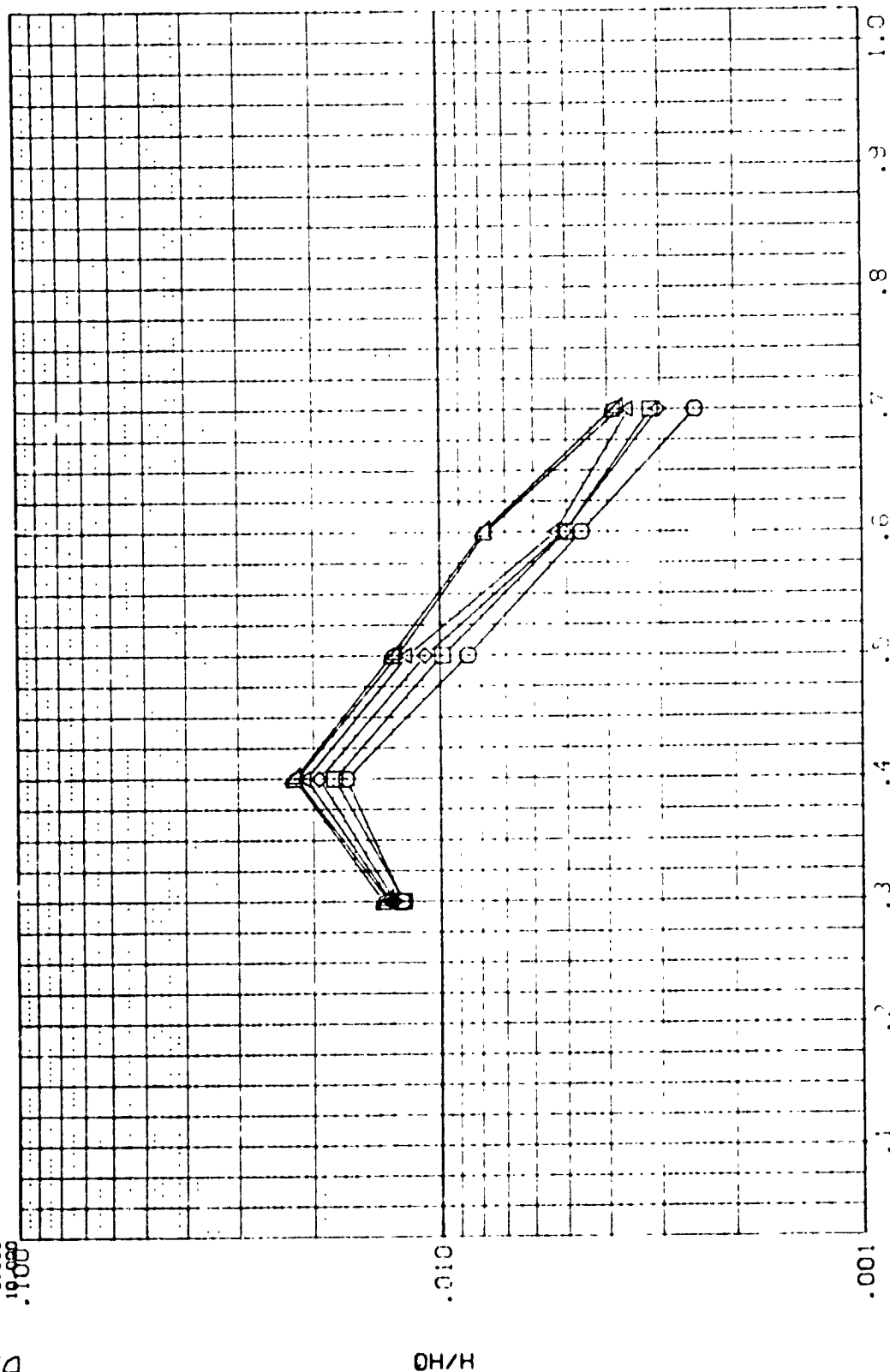


FIG 24 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 25 DEG. ANGLE OF ATTACK

(R0LS03) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

W.P. 400.000
 M.A.S./HT .900
 R_N/L 3.000
 4.000
 5.000
 6.000
 8.000
 10.000

PARAMETRIC VALUES
 ALPHA MACH
 25.000 8.000
 BETA .000

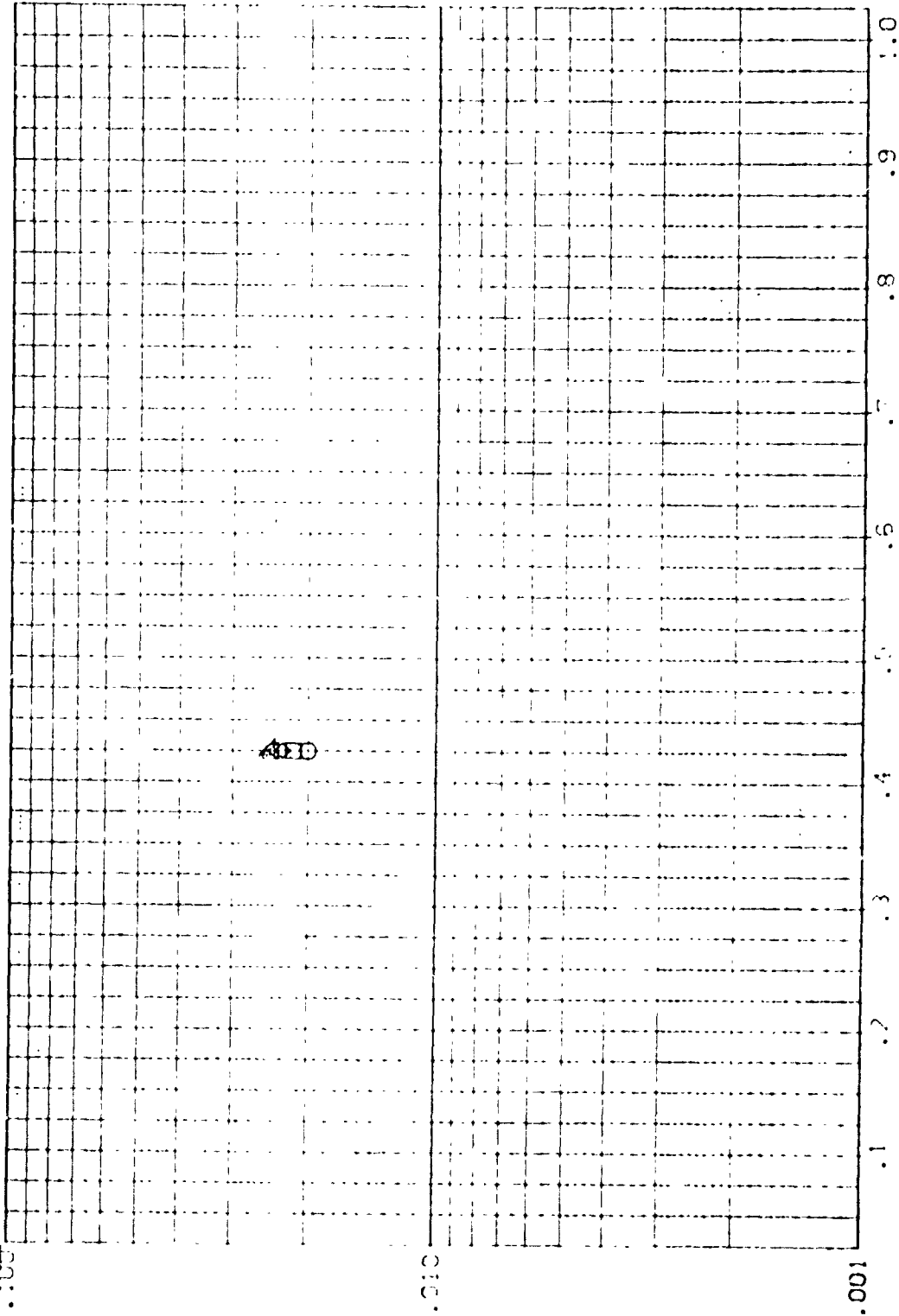


FIG 24 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
 VARIATION OF R_N/L ON FUSELAGE UPPER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RJLS03) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
25.000 BETA .000
8.000

ALPHA
MACH

W.P. 425.000
MACH/HT .900

SYMBOL RN/L
3.000
4.000
5.000
6.000
8.000
10.000

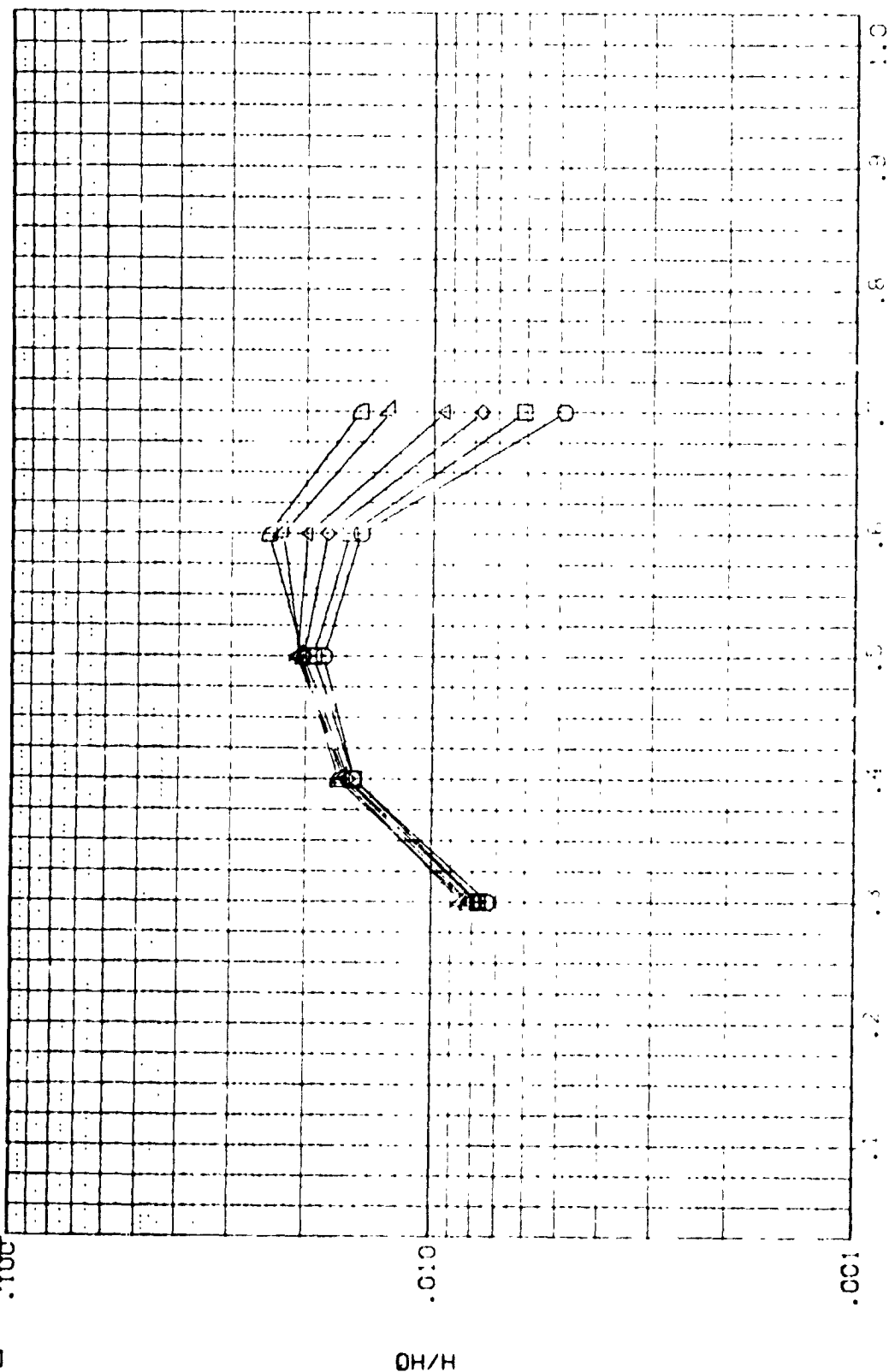


FIG 24 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLS03) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL RN/L
 3.000
 4.000
 5.000
 6.000
 8.000
 19.000

V.P. 465.000
 HAW/HT .900

PARAMETRIC VALUES
 ALPHA MACH
 25.000 8.000
 BETA .000

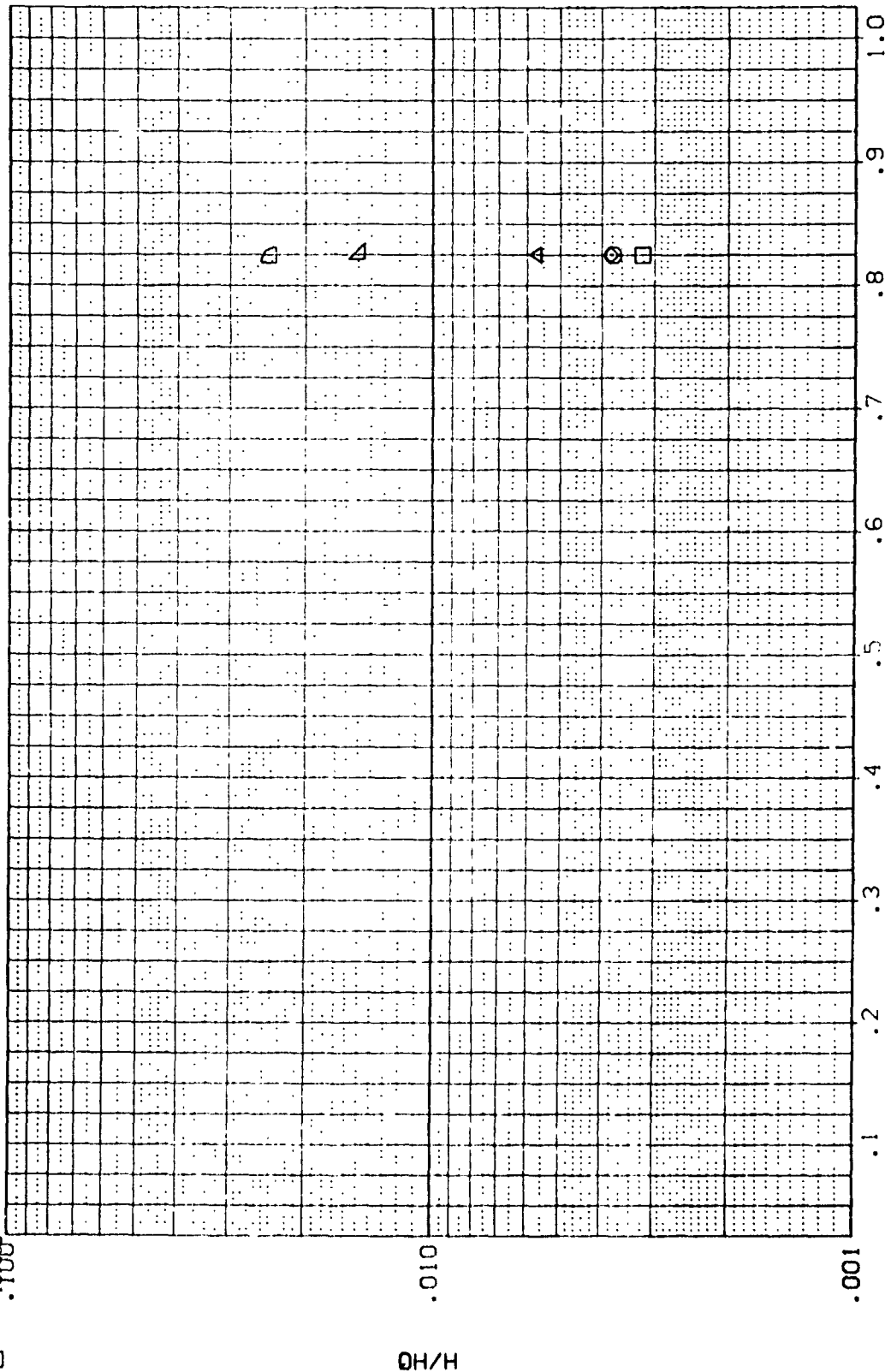


FIG 24 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLS03) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
ALPHA MACH 25.000 BETA 8.000 .000

W.P. 501.000 HAW/HT .900

SYMBOL RN/L 3.000 4.000 5.000 6.000 8.000 10.000

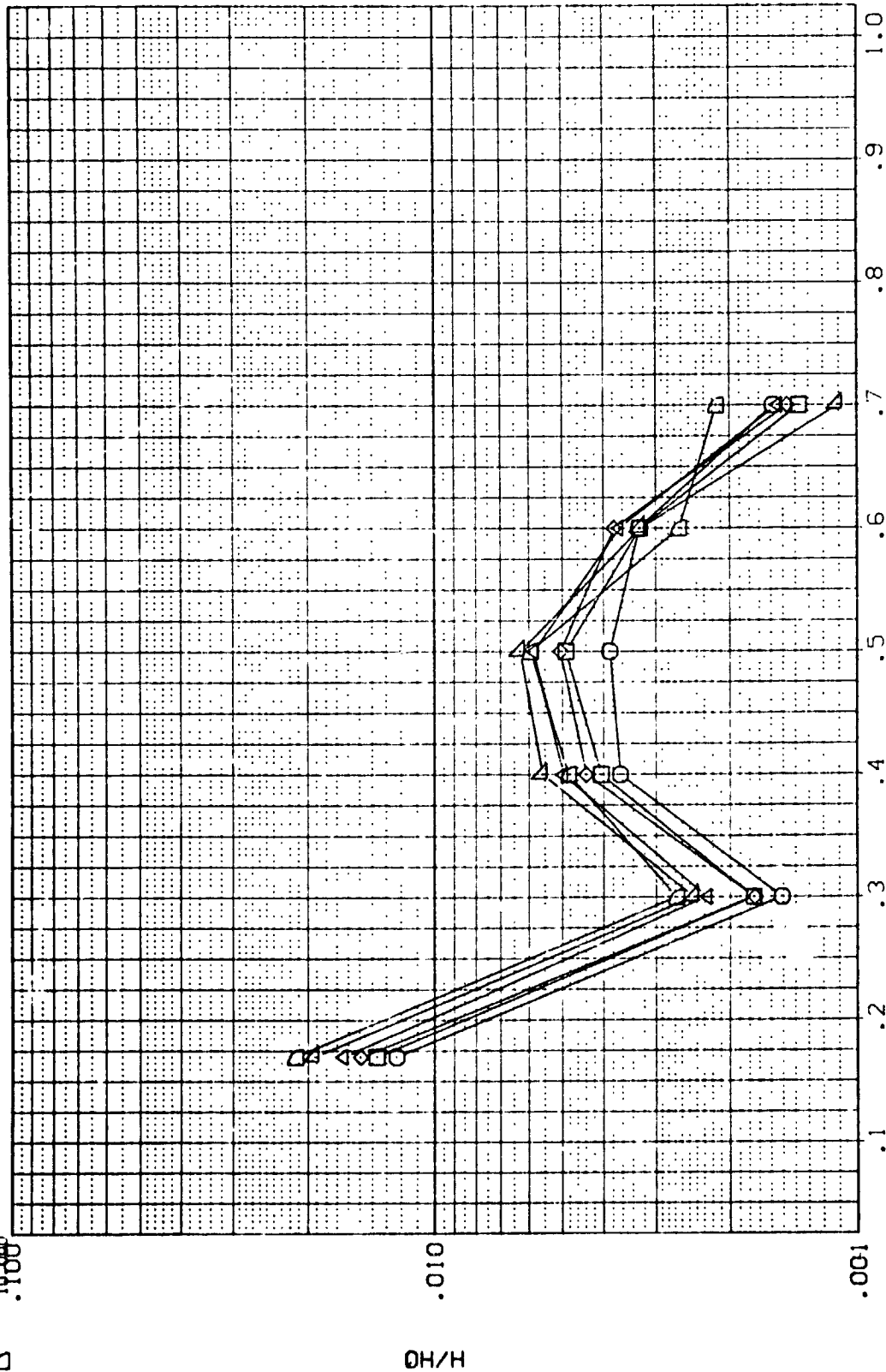


FIG 24 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 25 DEG. ANGLE OF ATTACK

(RQLB04) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

PARAMETRIC VALUES
ALPHA MACH
30.000 BETA
8.000 .000

B.P. .000
HAW/HIT .850

SYMBOL RN/L
1.000
4.000
5.000
6.000
8.000
10.000

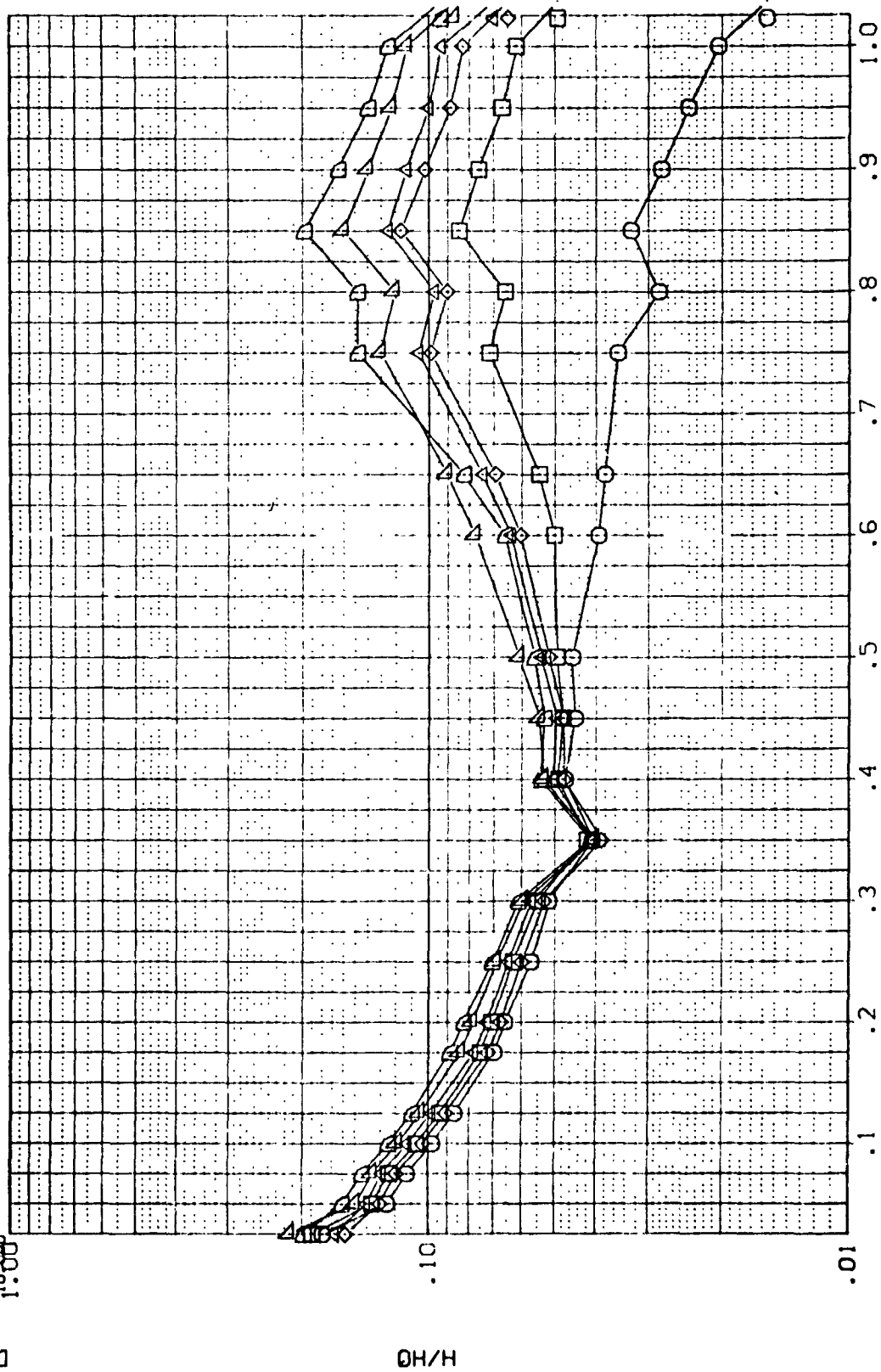


FIG 25 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE LOWER SURFACE AT 30 DEG. ANGLE OF ATTACK

(RQLB04) 0H14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

PARAMETRIC VALUES
 ALPHA MACH 30.000 BETA .000

B.P. 117.000
 HAV/HT .850

SYMBOL
 1.000
 4.000
 5.000
 6.000
 8.000
 10.000

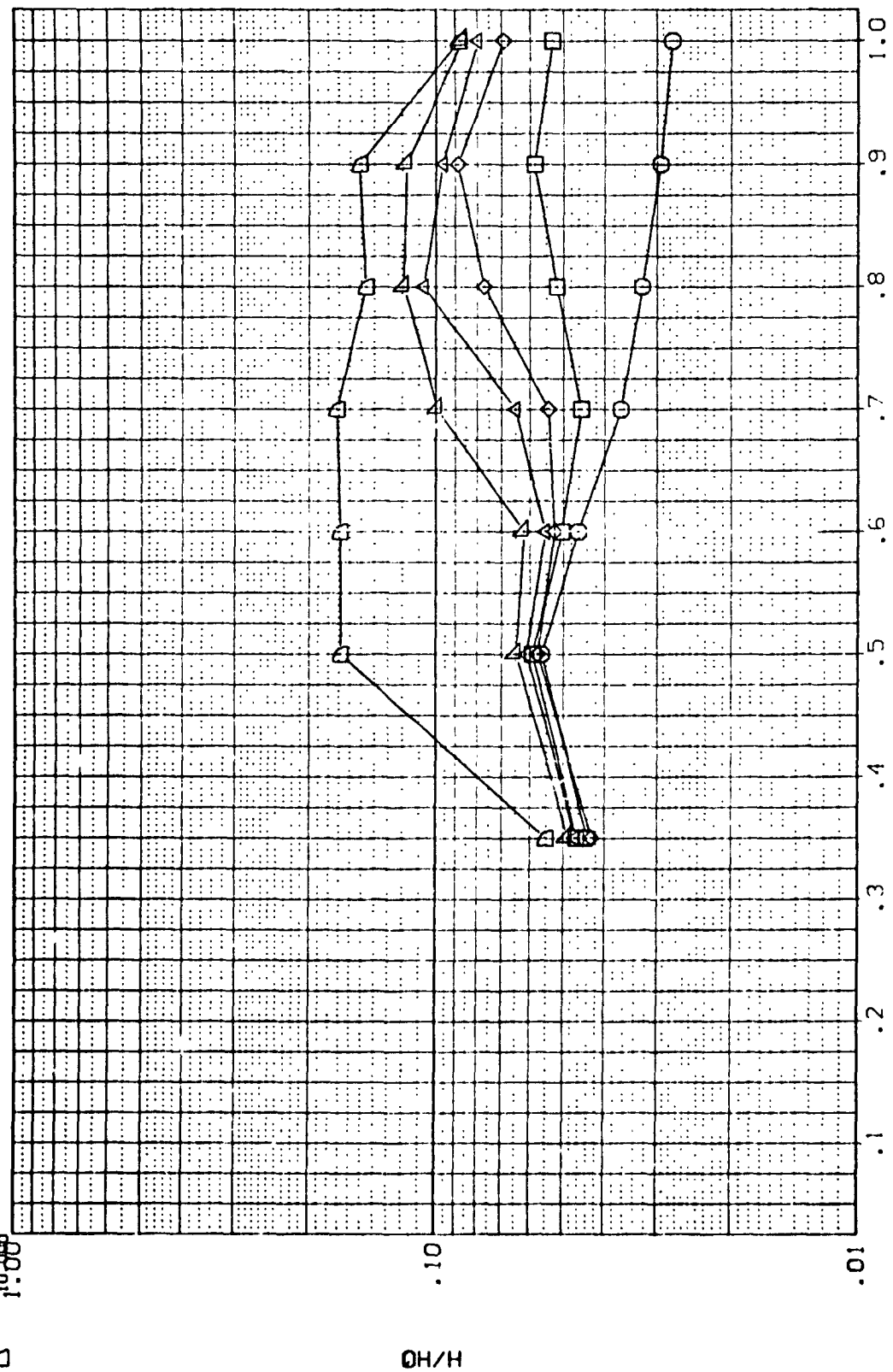


FIG 25 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE LOWER SURFACE AT 30 DEG. ANGLE OF ATTACK

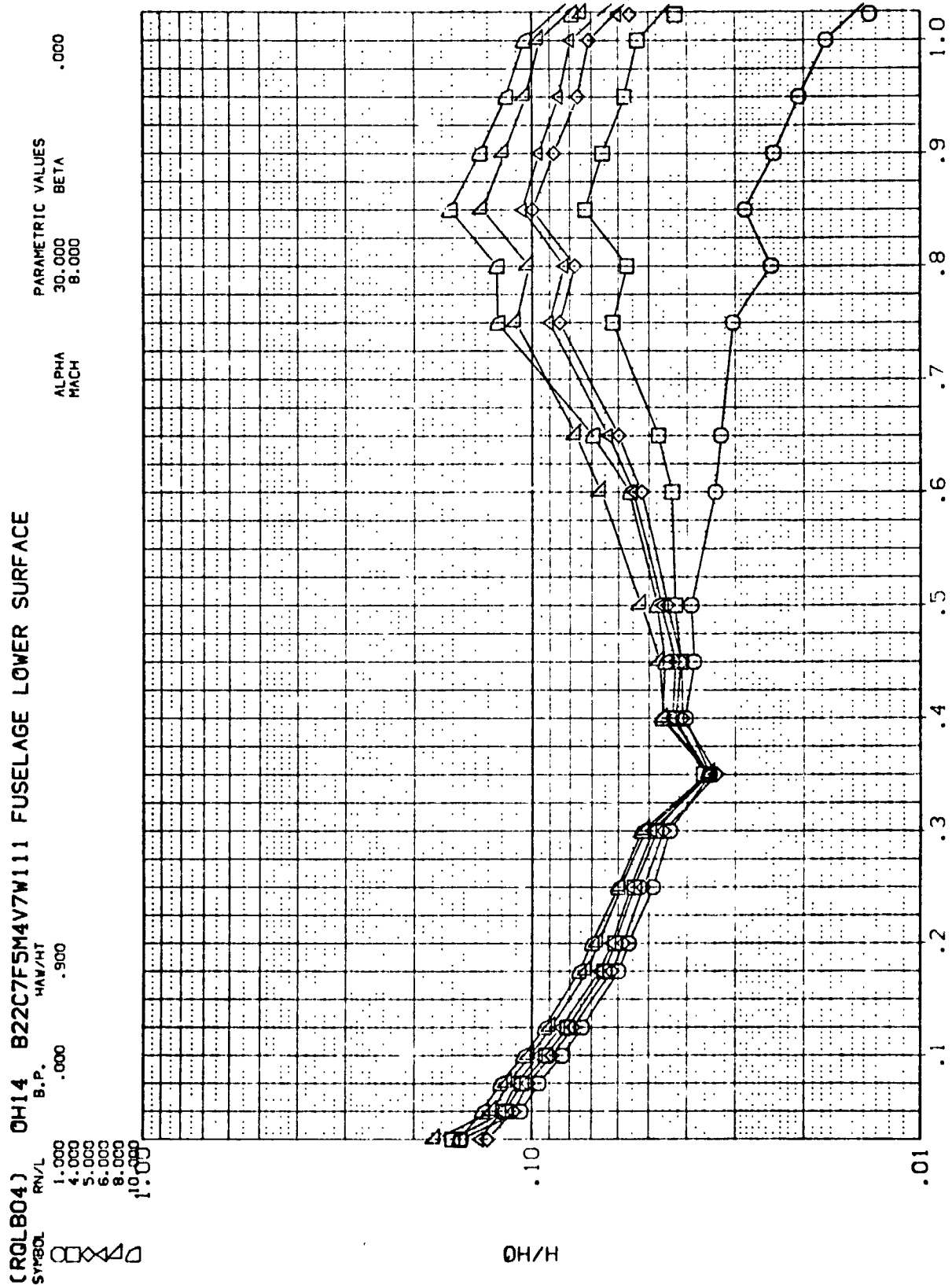


FIG 25

(RQLB04) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL
 1.000
 4.000
 5.000
 6.000
 8.000
 10.000

B.P.
 117.000

MAY/HT
 .900

ALPHA
 MACH

PARAMETRIC VALUES
 30.000 BETA
 8.000 .000

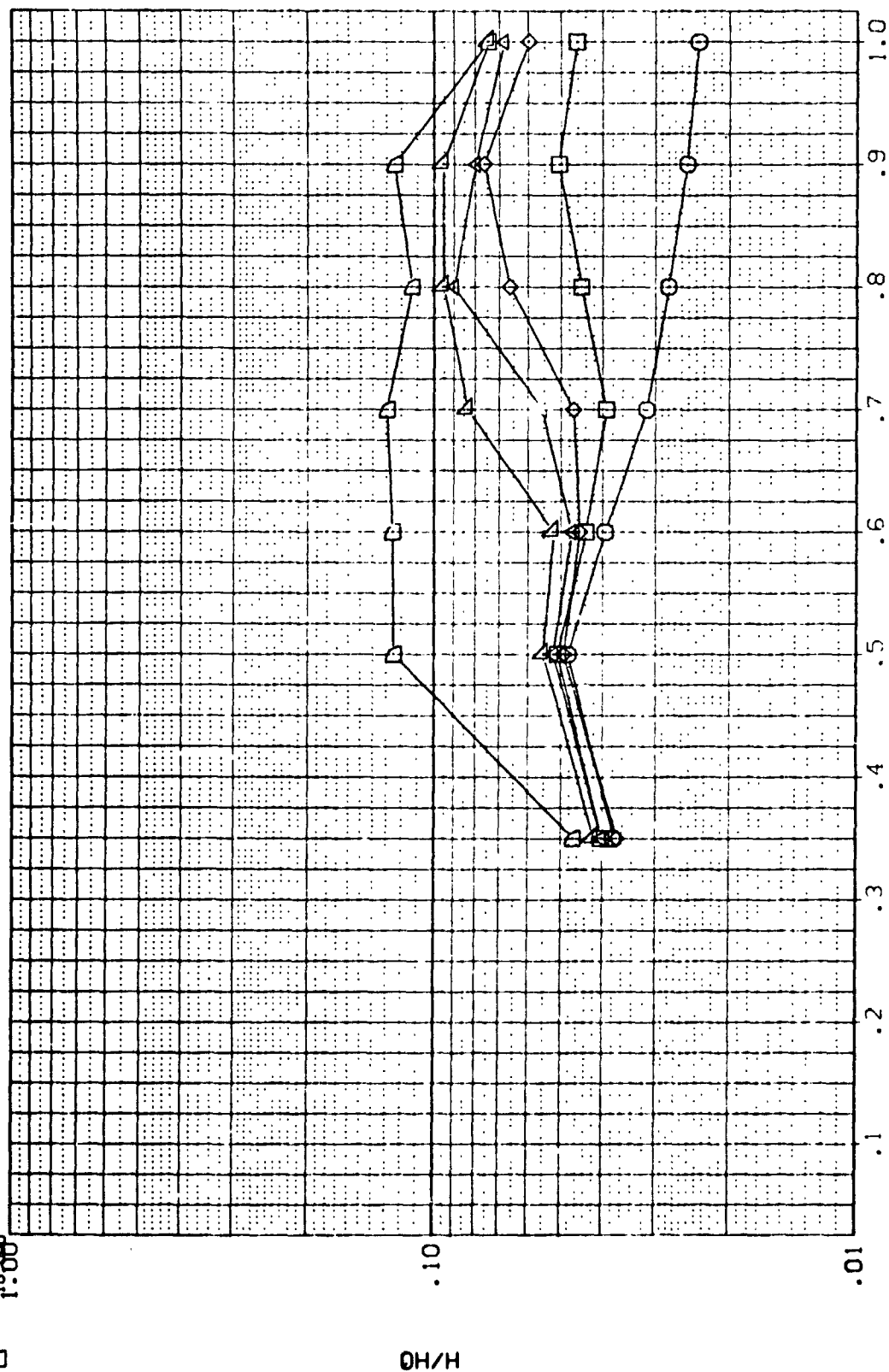
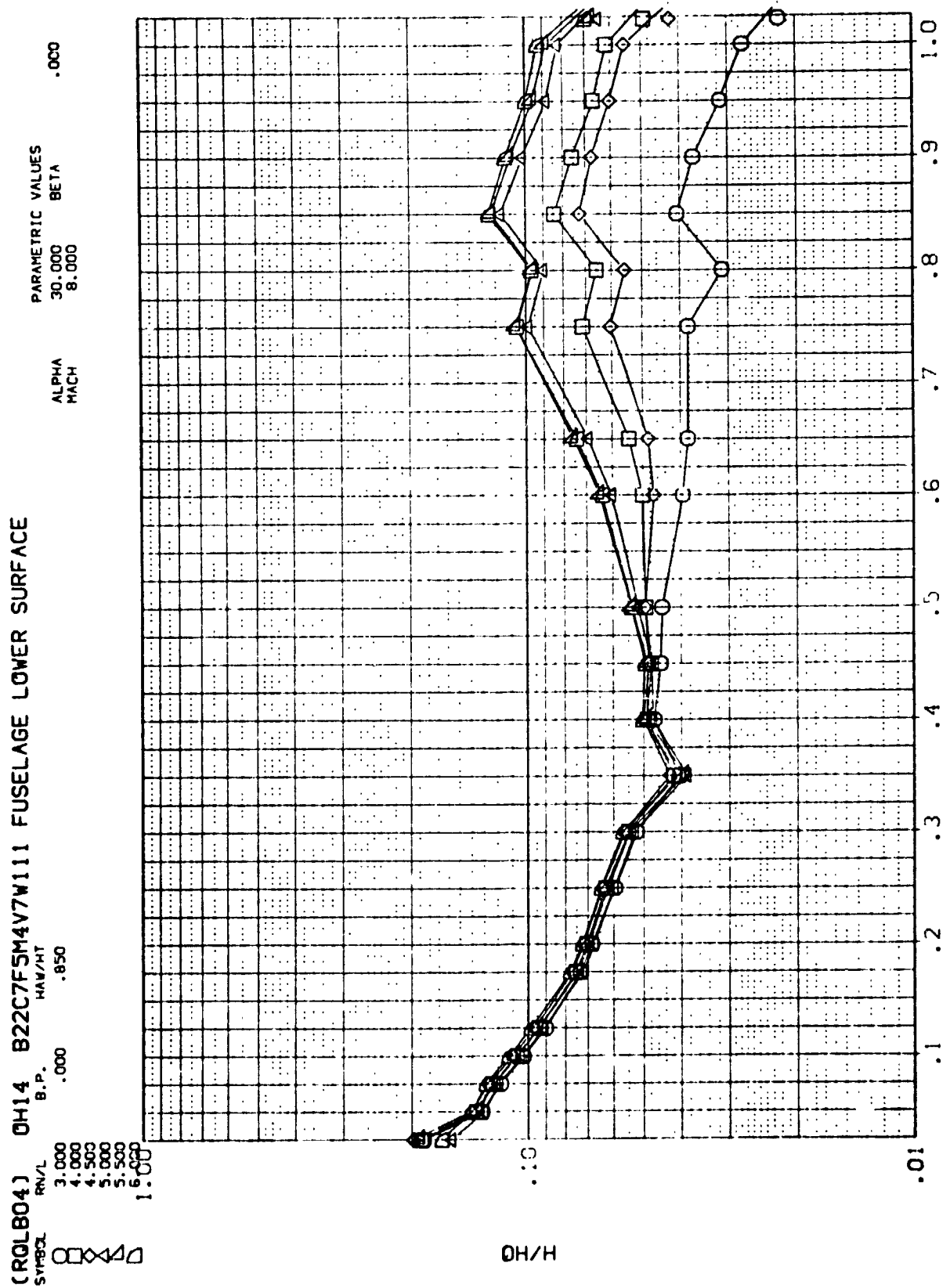


FIG 25 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE LOWER SURFACE AT 30 DEG. ANGLE OF ATTACK



(RQLB04) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL
 3.000
 4.000
 4.500
 5.000
 5.500
 6.000
 1.000

B.P. 117.000
 MAX/HT -850

PARAMETRIC VALUES
 ALPHA MACH 30.000 BETA 8.000 .000

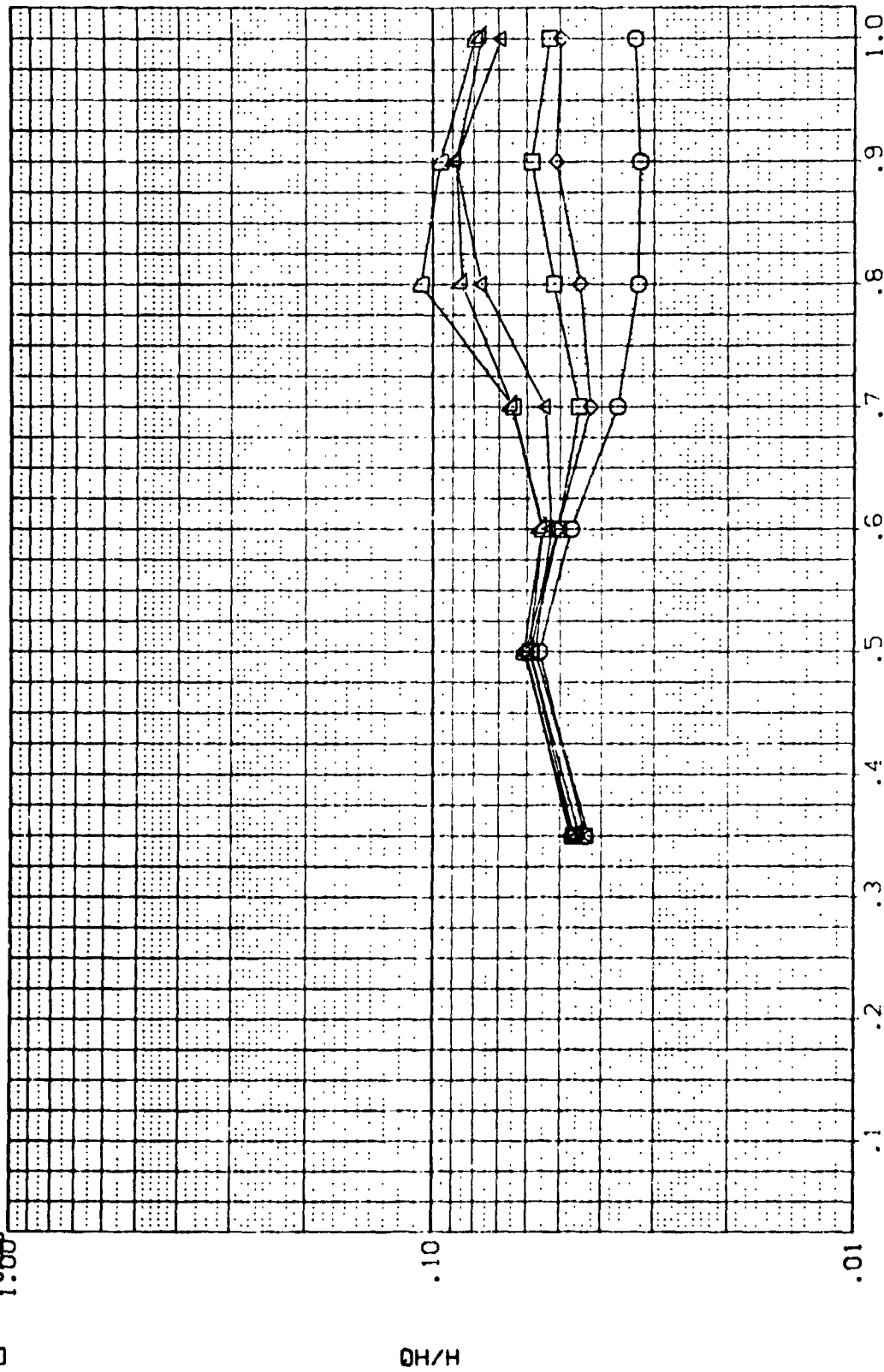


FIG 25 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE LOWER SURFACE AT 30 DEG. ANGLE OF ATTACK

(R0LB04) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

PARAMETRIC VALUES
 30.000 BETA .000
 8.000

B.P. .000
 HAW/MT .900

SYMBOL RN/L
 3.000
 4.000
 4.500
 5.000
 5.500
 6.000

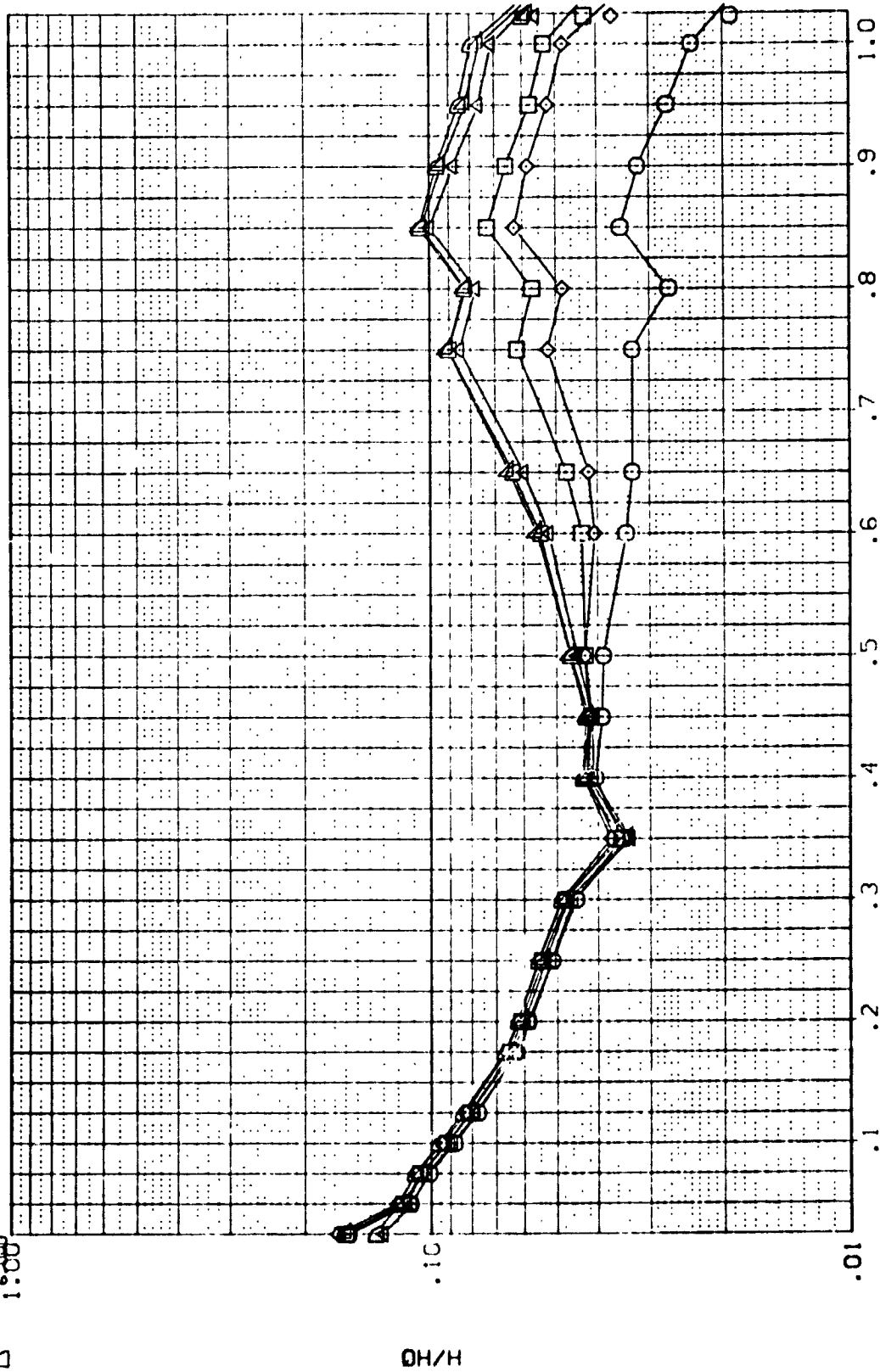


FIG 25 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE LOWER SURFACE AT 30 DEG. ANGLE OF ATTACK

(ROLB04) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

PARAMETRIC VALUES
30.000 BETA .000
8.000

ALPHA
MACH

8.P. 117.000
MACH/WT .900

SYMBOL
RN/L 3.000
4.000
4.500
5.000
5.500
6.000
1:00

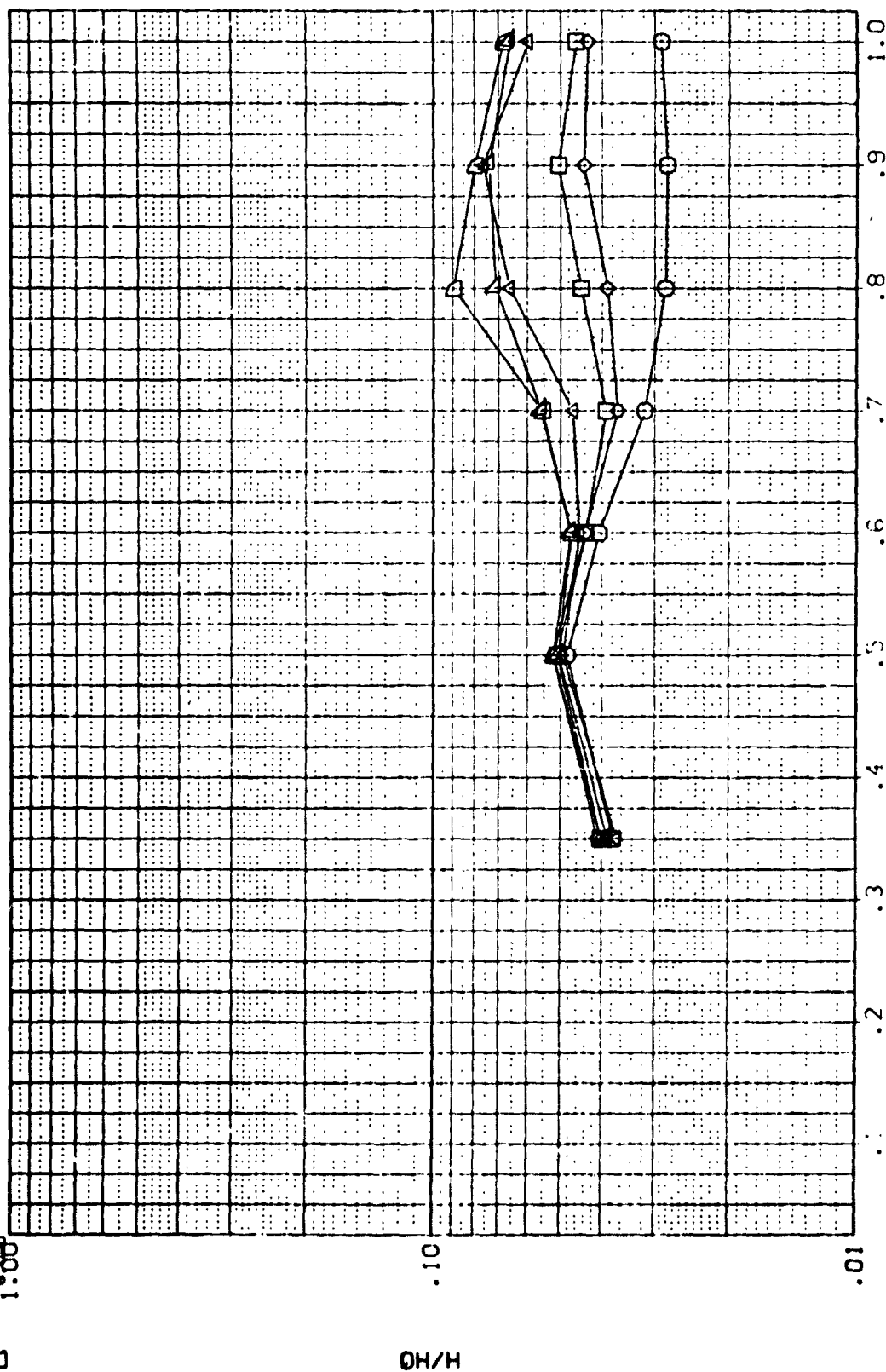


FIG 25 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE LOWER SURFACE AT 30 DEG. ANGLE OF ATTACK

QH14 B22C7F5M4V7W111 WING LOWER SURFACE

| PARAMETRIC VALUES | |
|-------------------|-------|
| ALPHA | BETA |
| 30.000 | .000 |
| MACH | 8.000 |

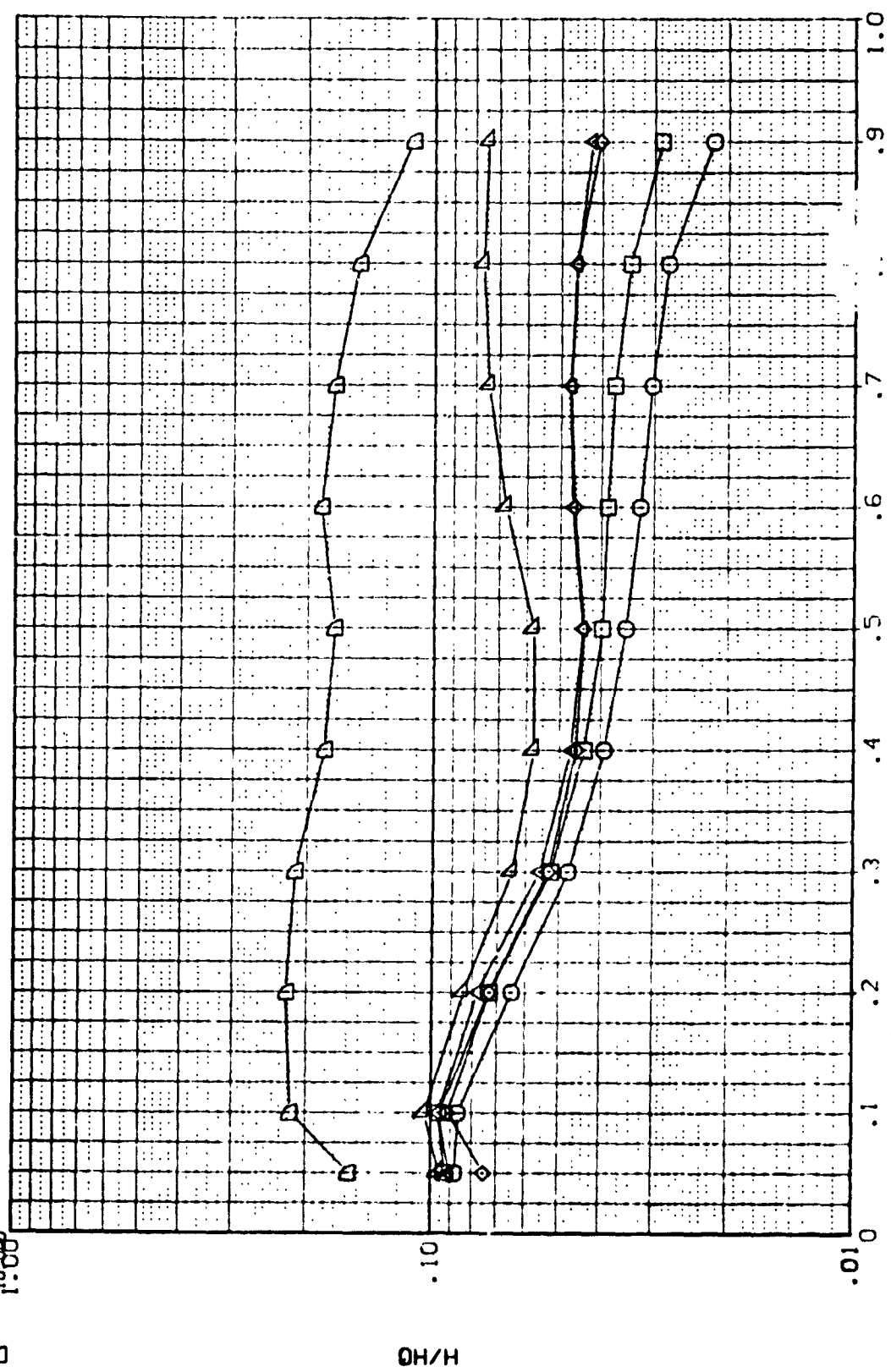


FIG 26 LONGITUDINAL WING STATION. X/C. FRACTION OF LOCAL WING AREA. VARIATION OF RN/L ON WING LOWER SURFACE AT 30 DEG. ANGLE OF ATTACK

(RQLV04) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

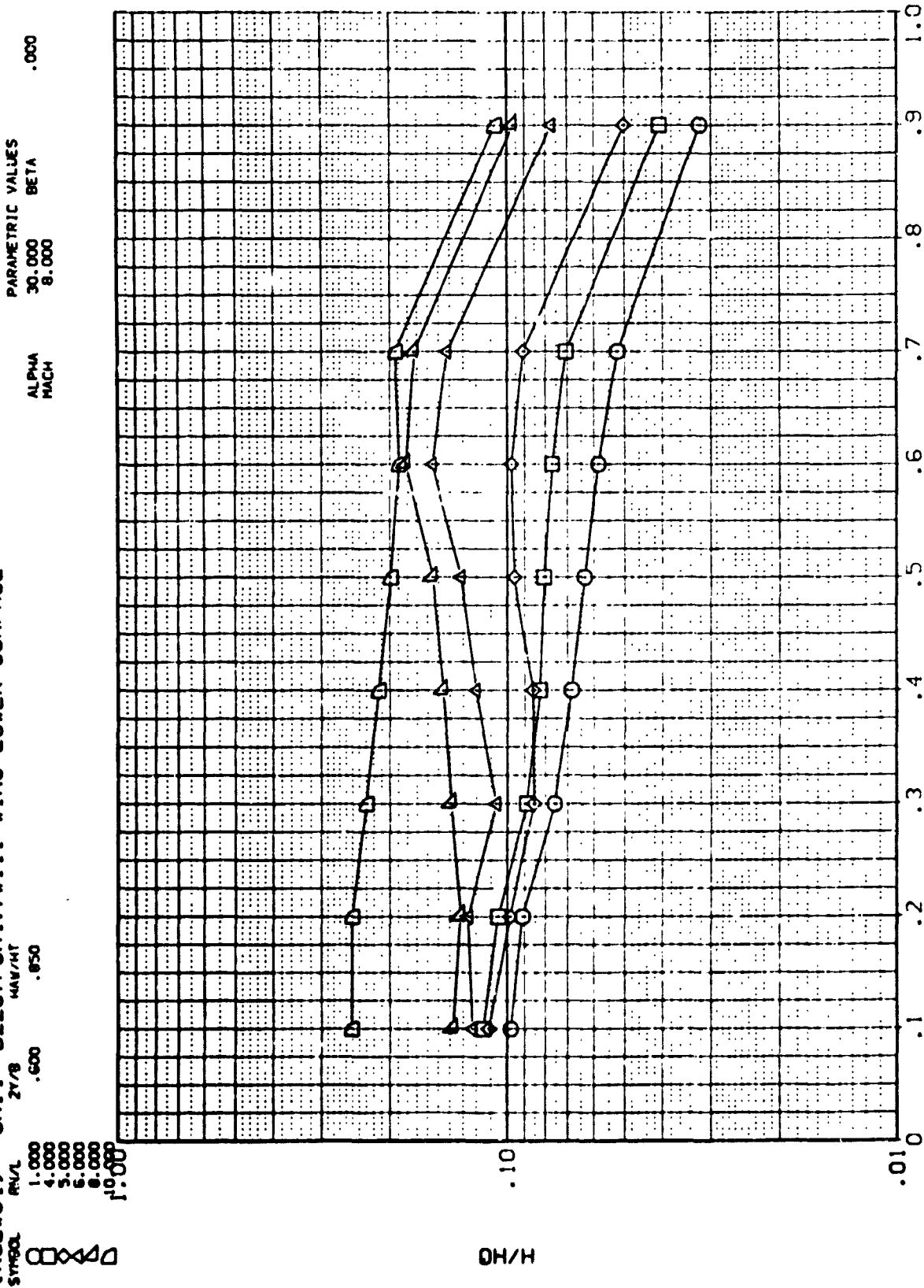


FIG 26 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD

OH14 B22C7FSH4V7W111 WING LOWER SURFACE

(RQLW04)
SYMBOL RN/L
1.000
4.000
5.000
6.000
8.000
10.000

27/8
MACH/MF
.800
.850

PARAMETRIC VALUES
ALPHA
MACH
30.000
8.000
BETA
.000

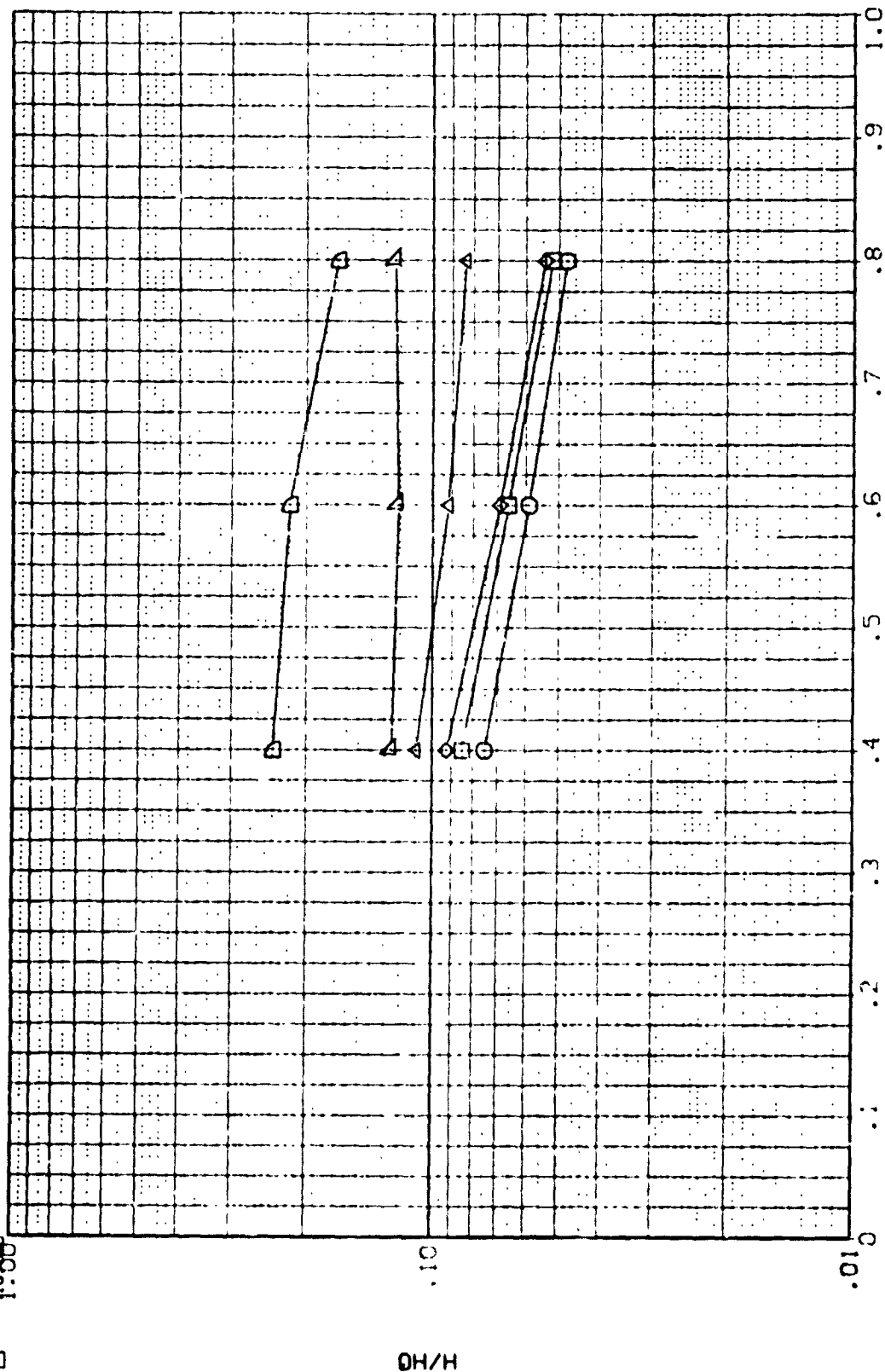


FIG 28 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
VARIATION OF RN/L ON WING LOWER SURFACE AT 30 DEG. ANGLE OF ATTACK

OH14 B22C7F5M4V7W111 WING LOWER SURFACE

(ROLW04)
SYMBOL
RN/L
1.000
4.000
5.000
6.000
8.000
10.000

2Y/B
-400
-900

PARAMETRIC VALUES
ALPHA
MACH
30.000
8.000
BETA
.000

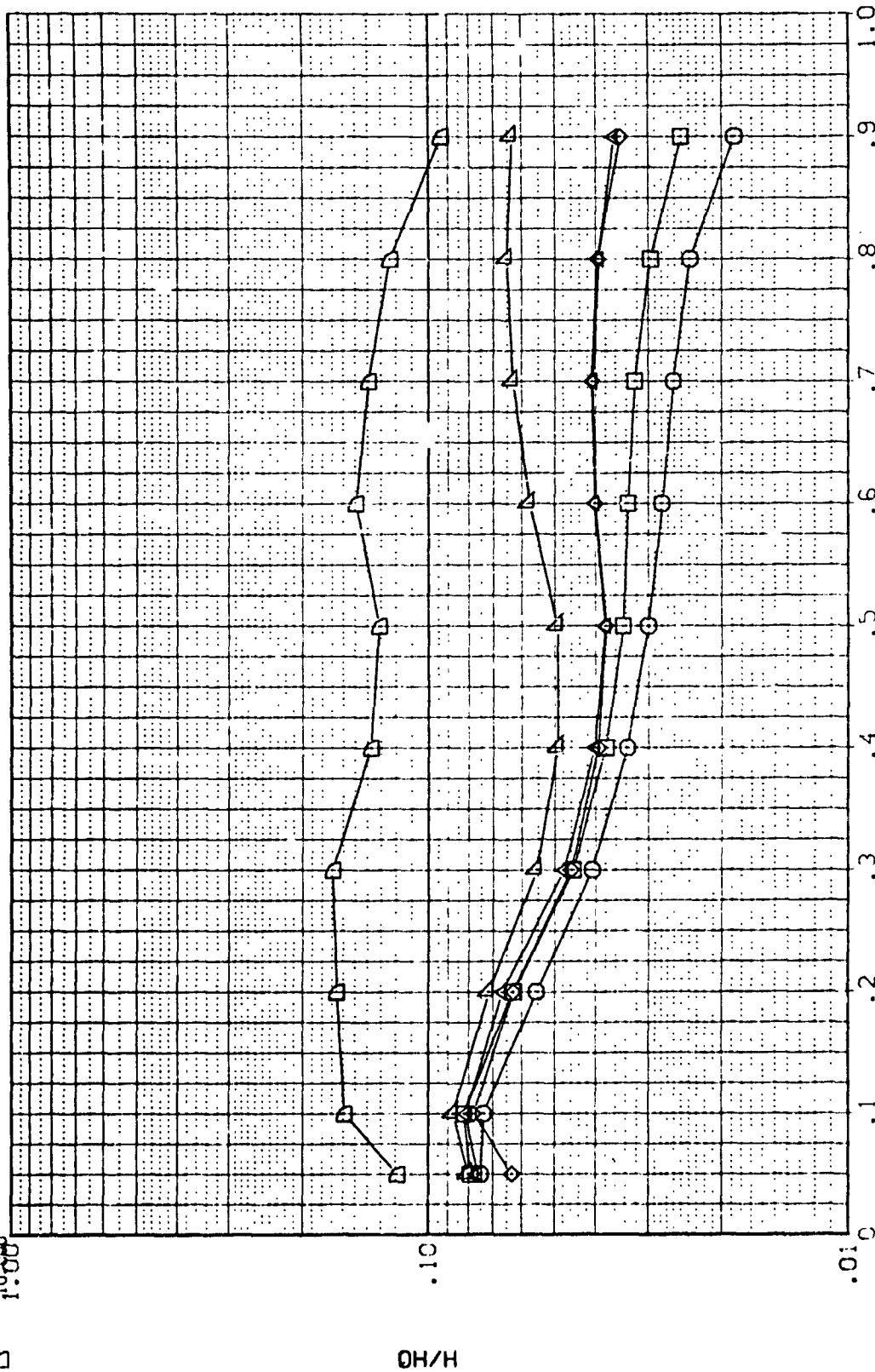


FIG 26 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
VARIATION OF RN/L ON WING LOWER SURFACE AT 30 DEG. ANGLE OF ATTACK

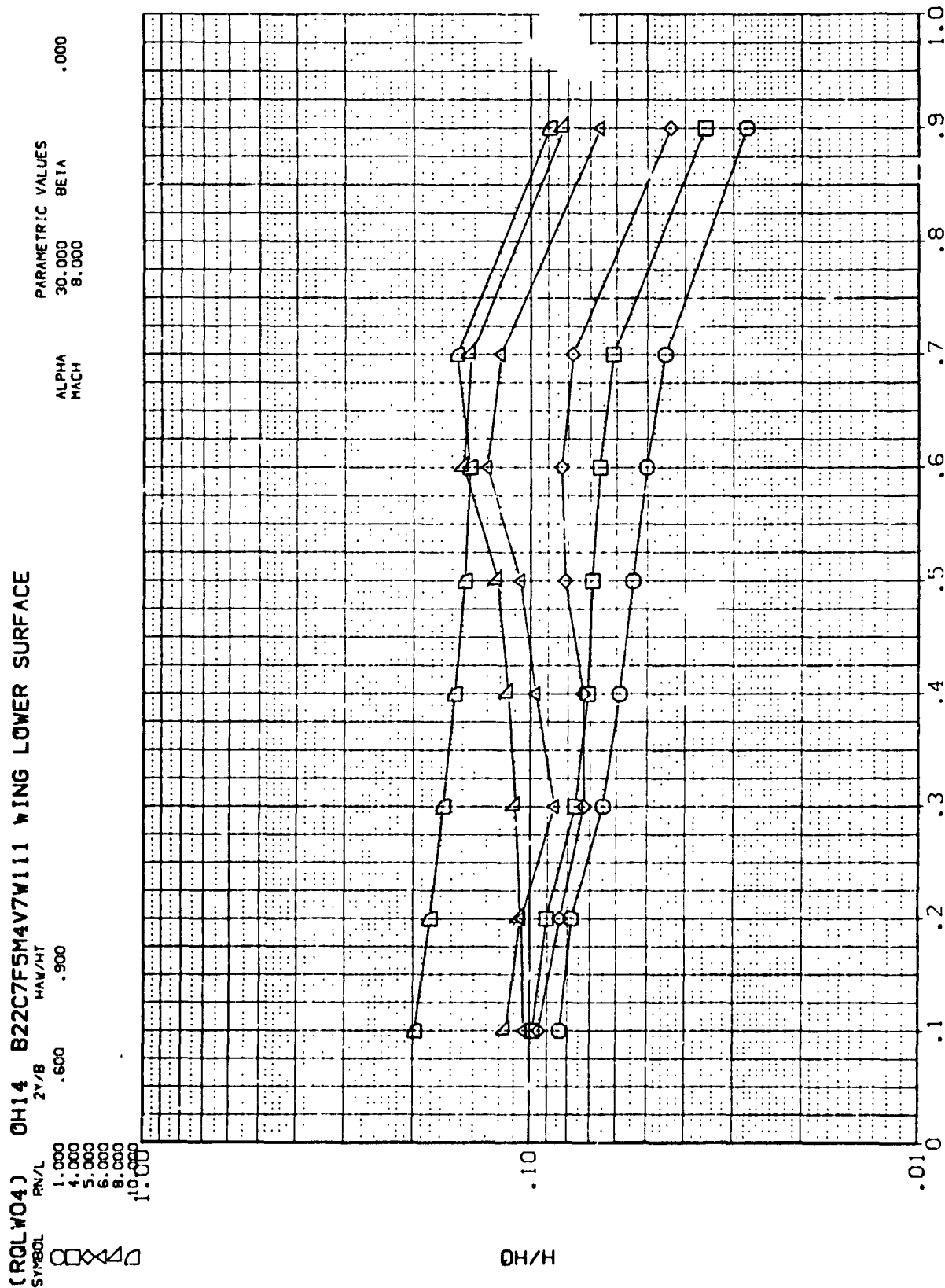


FIG 26 VARIATION OF RN/L ON WING LOWER SURFACE AT 30 DEG. ANGLE OF ATTACK

(RQLW04) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

PARAMETRIC VALUES
 30.000 BETA
 8.000

ALPHA
 MACH

27/8 .800

MAV/HT .900

1.000
 4.000
 5.000
 6.000
 8.000
 10.000

SYMBOL

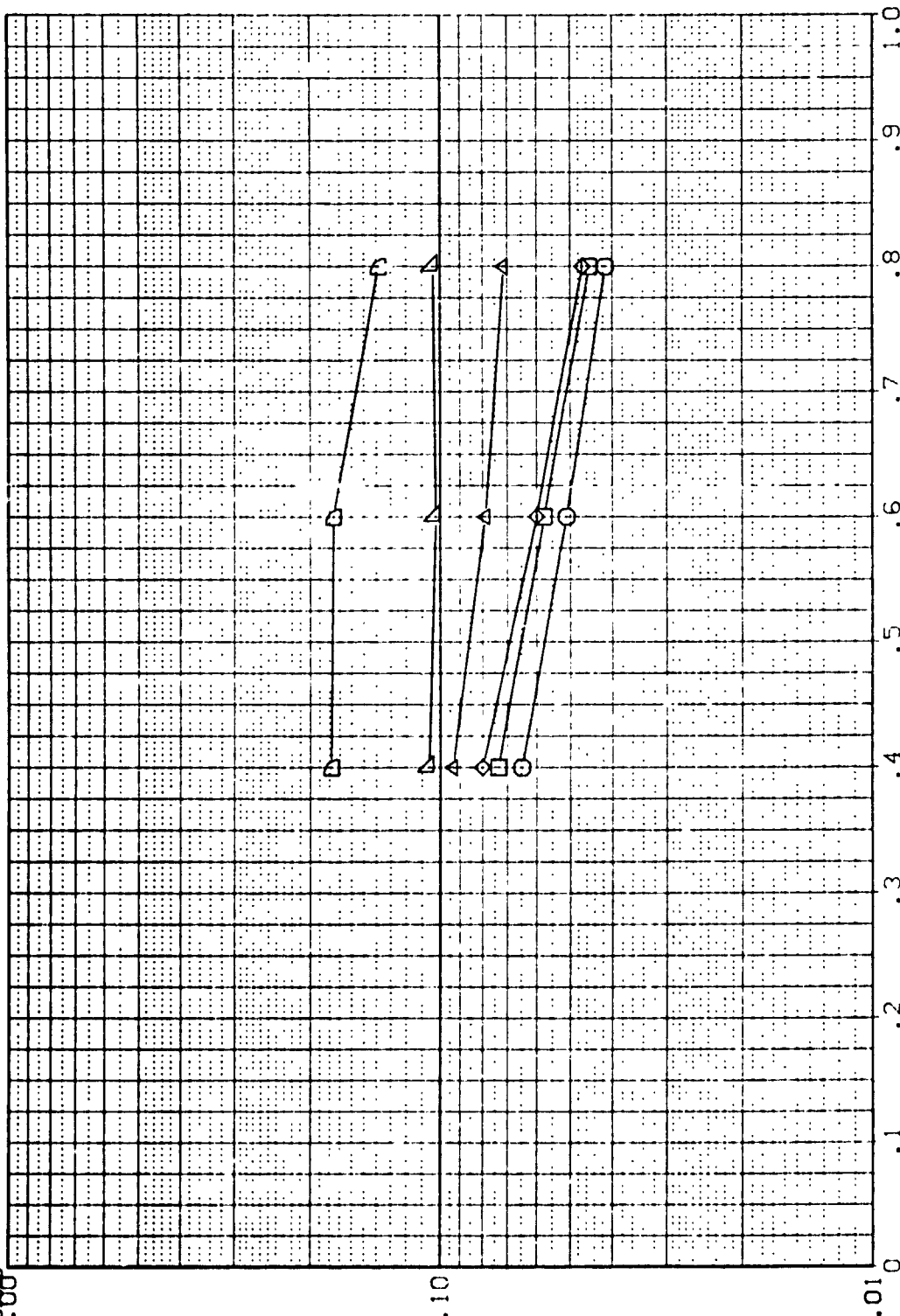
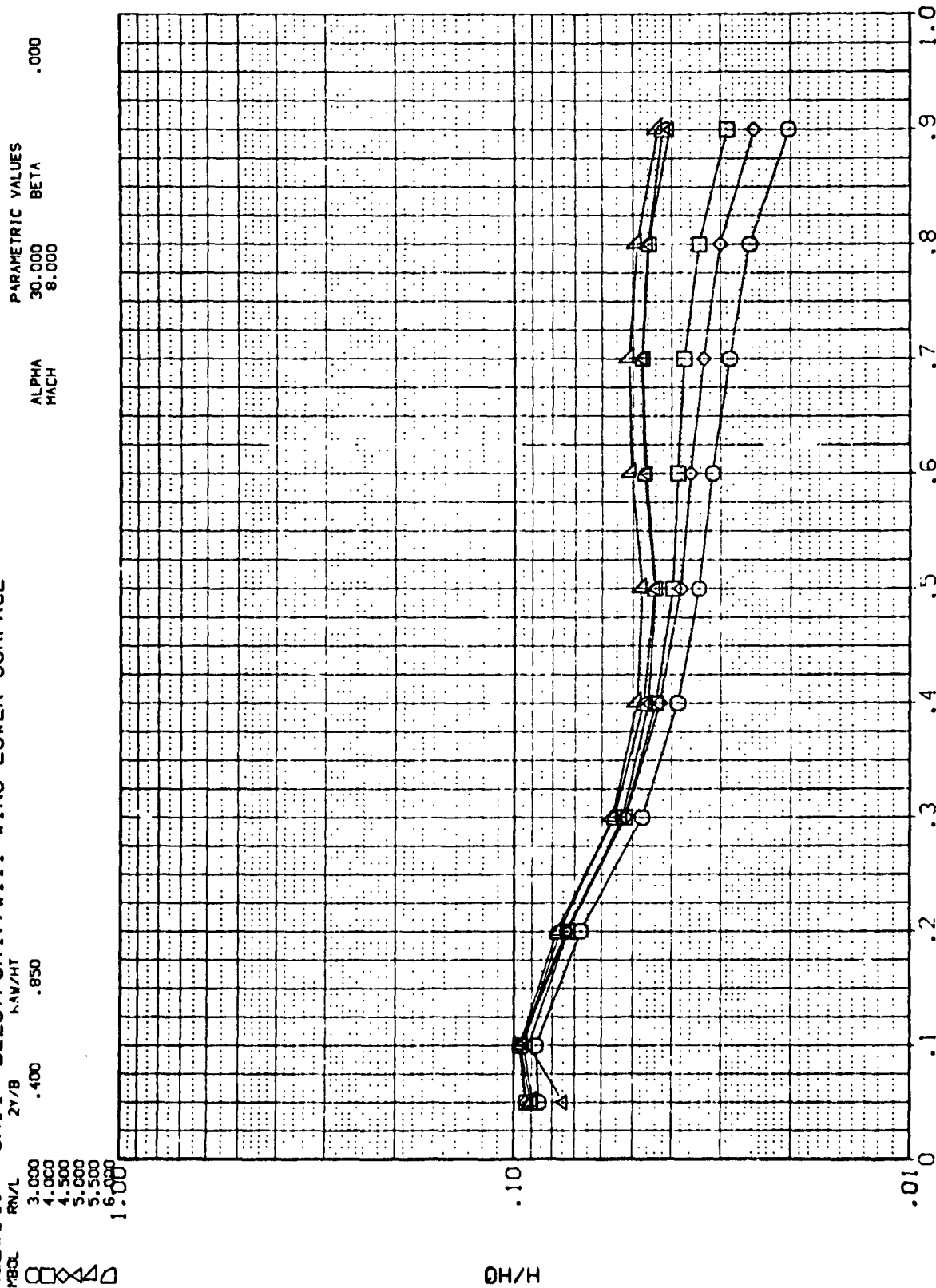


FIG 26 VARIATION OF RN/L ON WING LOWER SURFACE AT 30 DEG. ANGLE OF ATTACK

(RQLW04) OH14 B22C7F5M4V7W11: WING LOWER SURFACE



(ROLV04) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

PARAMETRIC VALUES
ALPHA MACH 30.000 BETA .000

ZY/B .600 HAV/HT .850

SYMBOL RN/L 3.000 4.000 4.500 5.000 5.500 6.000

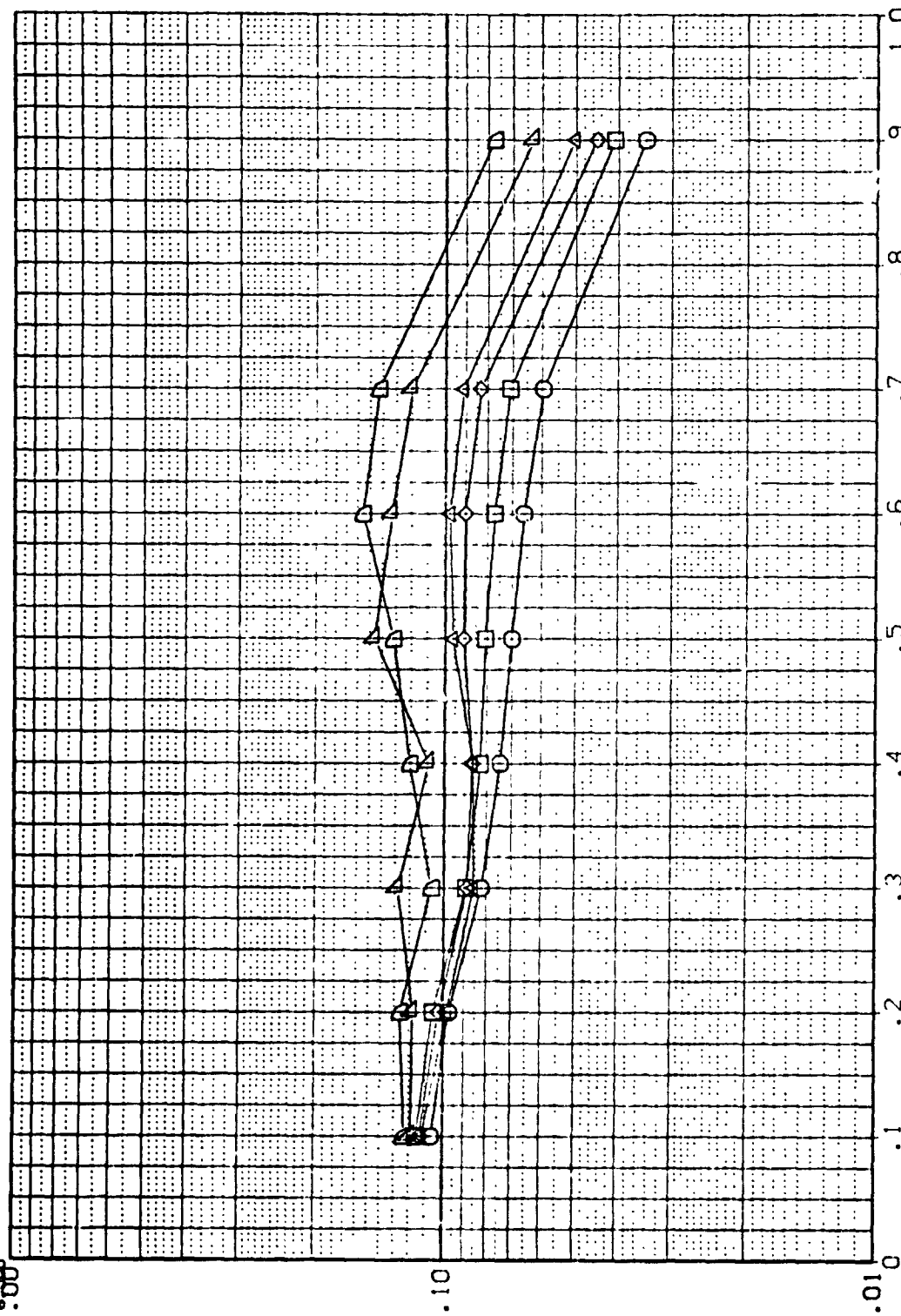


FIG 26 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
VARIATION OF RN/L ON WING LOWER SURFACE AT 30 DEG. ANGLE OF ATTACK

(RQLW04) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL
RN/L
3.000
4.000
4.500
5.000
5.500
6.000
1.00

2Y/B
.800
HAW/HT
.850

ALPHA
MACH

PARAMETRIC VALUES
30.000 BETA
8.000
.000

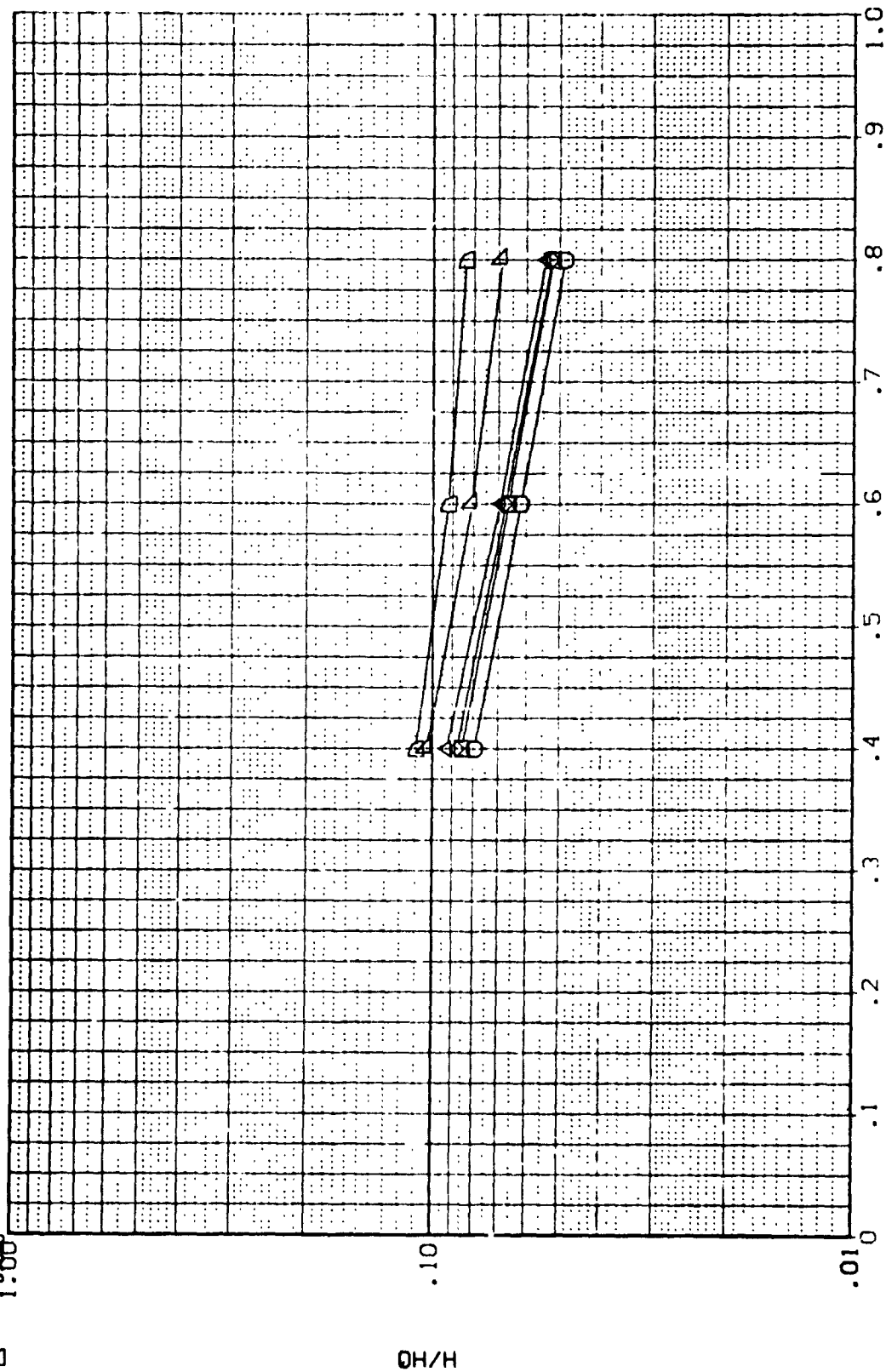


FIG 26 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
VARIATION OF RN/L ON WING LOWER SURFACE AT 30 DEG. ANGLE OF ATTACK

(RQLW04) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL

RN/L
3.000
4.000
4.500
5.000
5.500
6.000

ZY/B
.400
.900

ALPHA
HACH

PARAMETRIC VALUES
30.000 BETA
8.000 .000

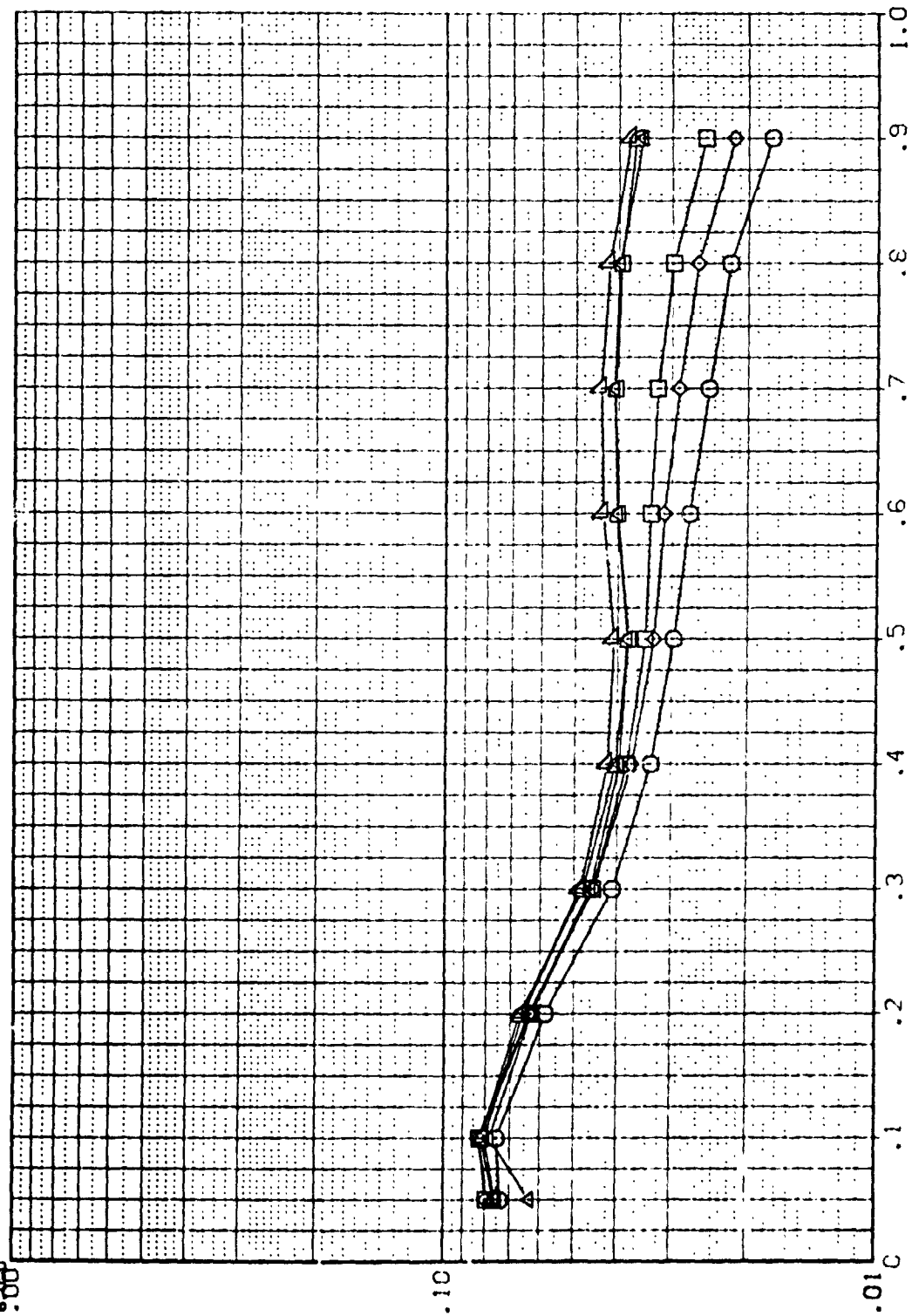


FIG 26 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
VARIATION OF RN/L ON WING LOWER SURFACE AT 30 DEG. ANGLE OF ATTACK

(ROLW04) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

PARAMETRIC VALUES
ALPHA MACH
30.000 BETA
8.000 .000

2Y/B HAV/HT
.600 .900

SYMBOL
RV/L
3.000
4.000
4.500
5.000
5.500
6.000
1.000

□ ◇ △ ▽

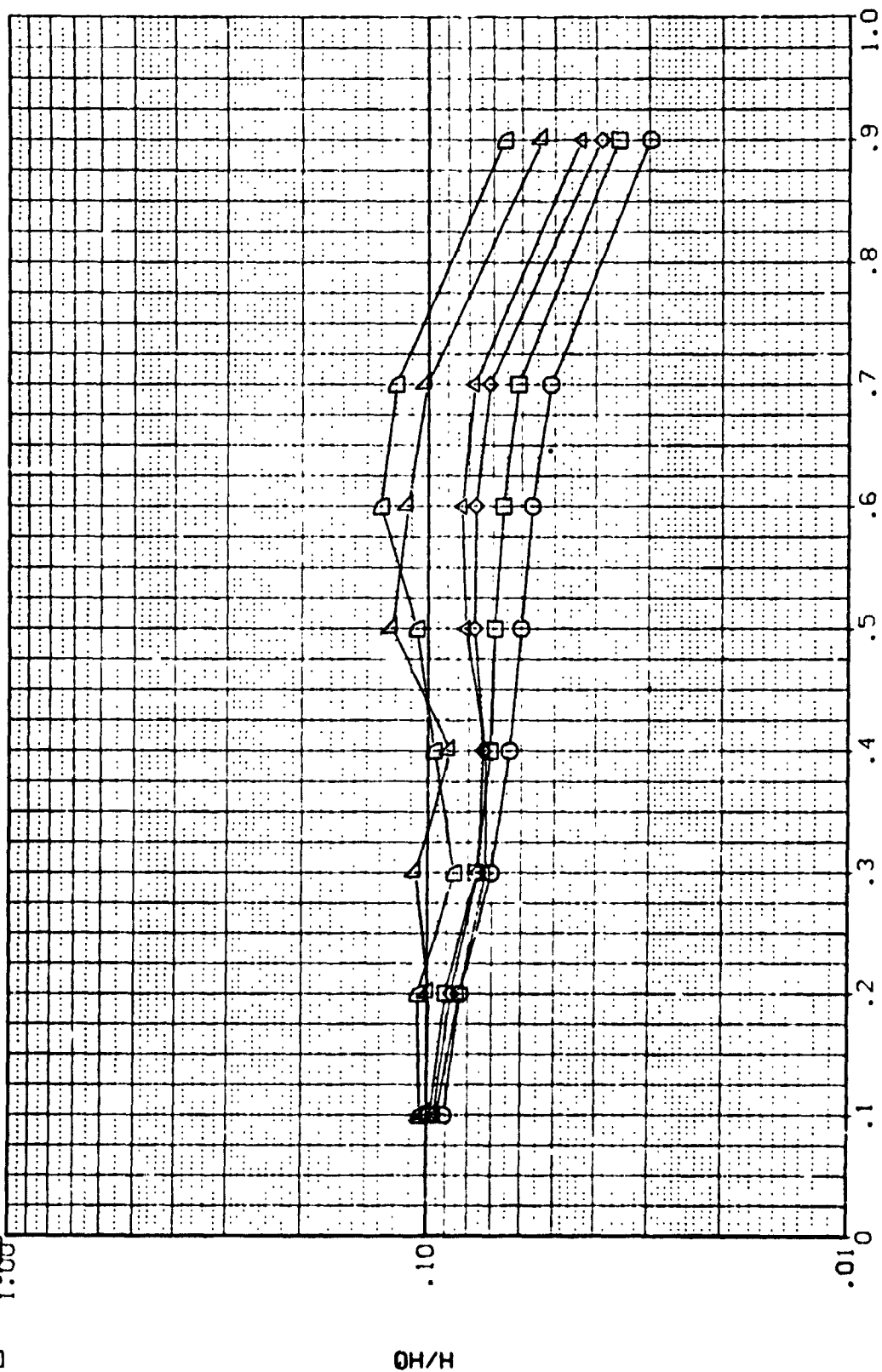


FIG 26 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
VARIATION OF RN/L ON WING LOWER SURFACE AT 30 DEG. ANGLE OF ATTACK

(RC' W04) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL
RN/L
3.000
4.000
4.500
5.000
5.500
6.000
1.00

ZV/B
.800
HAB/HT
.900

PARAMETRIC VALUES
ALPHA
MACH
30.000
8.000
BETA
.000

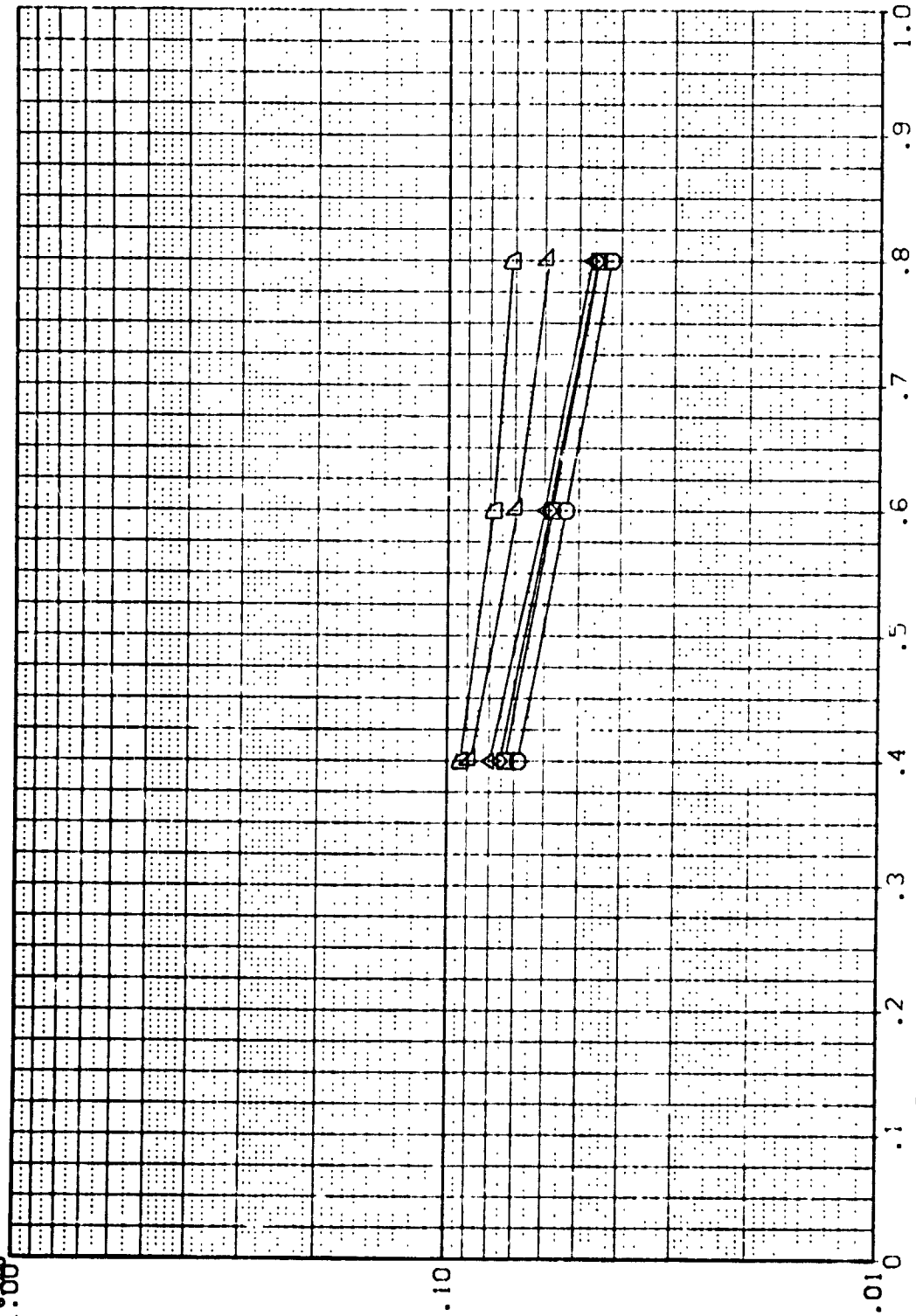


FIG 26 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
VARIATION OF RN/L ON WING LOWER SURFACE AT 30 DEG. ANGLE OF ATTACK

(RQLS04) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 30.000 BETA
 8.000

ALPHA
 MACH

U.P. 375.000
 HAV/HT .850

SYMBOL
 3.000
 4.000
 4.500
 5.000
 5.500
 6.000

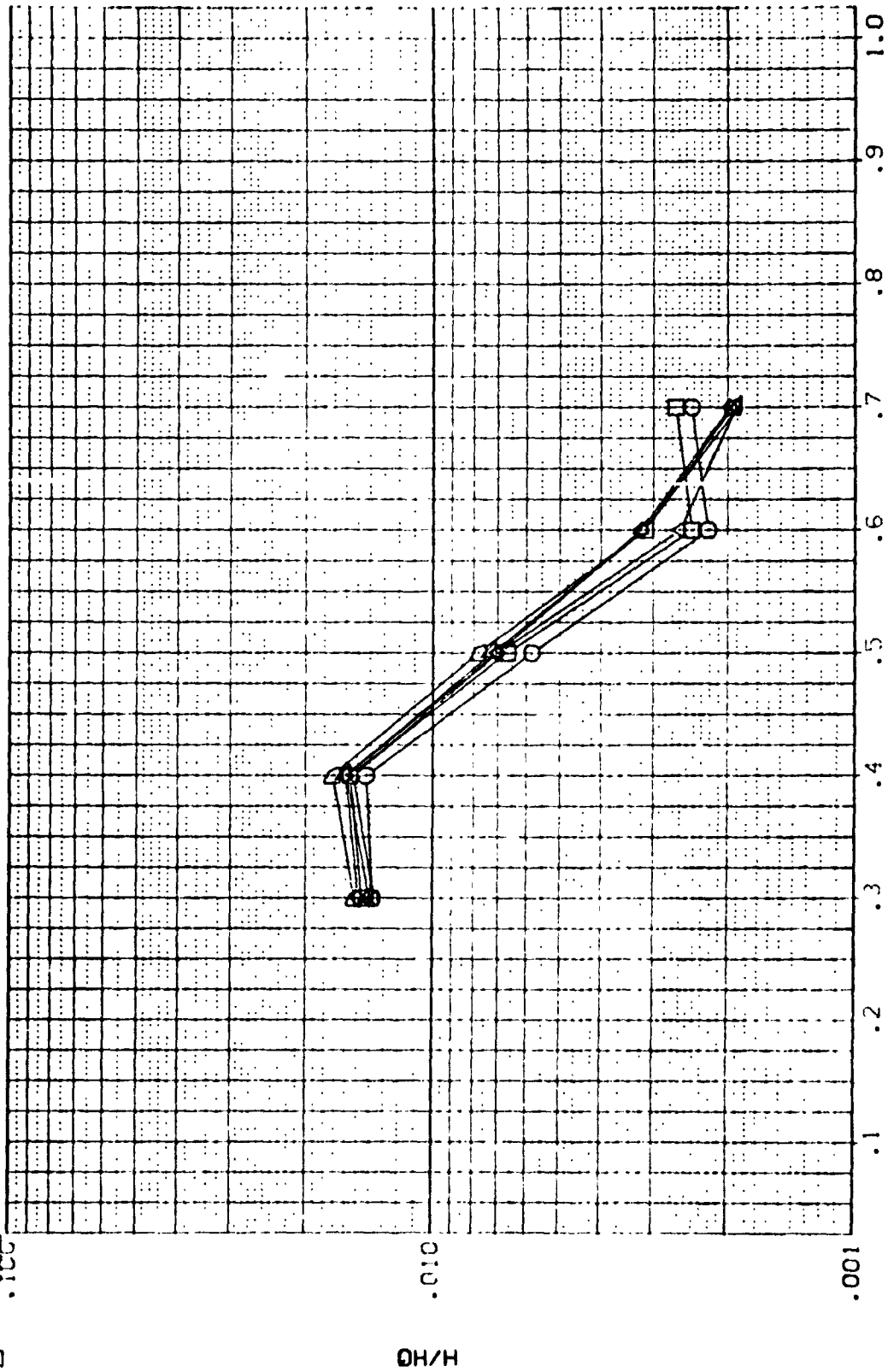


FIG 27 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 30 DEG. ANGLE OF ATTACK

(R0LS04) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 ALPHA MACH 30.000 BETA 9.000 .000

SV-80L RN/L W.P. HAW/MT
 3.000 400.000 .850
 4.000
 4.500
 5.000
 5.500
 6.000

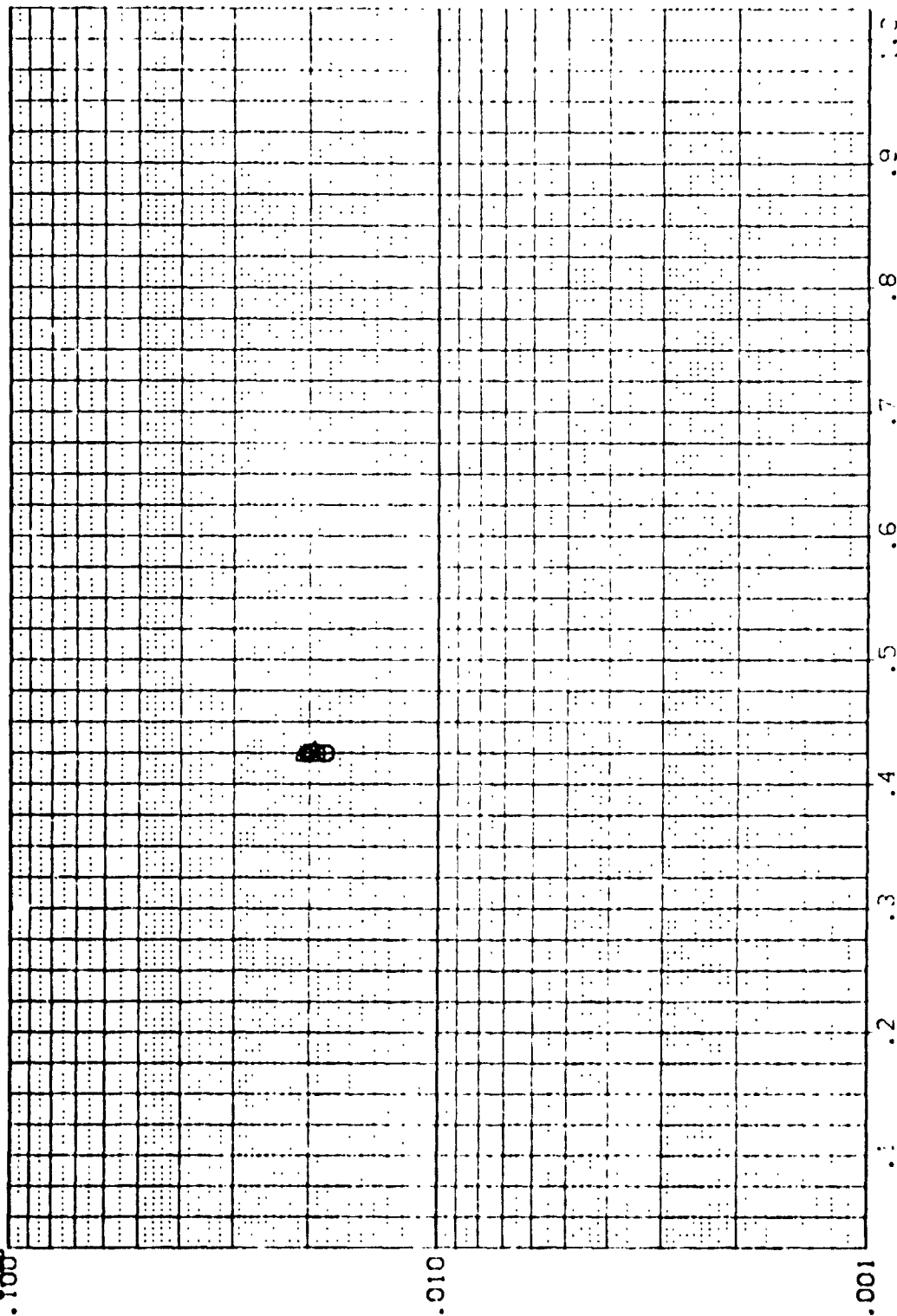


FIG 27 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 30 DEG. ANGLE OF ATTACK

(R0LS04) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 30.000 BETA
 8.000
 .000

Symbol
 3.000
 4.000
 4.500
 5.000
 5.500
 6.000

W.P.
 425.000
 .850

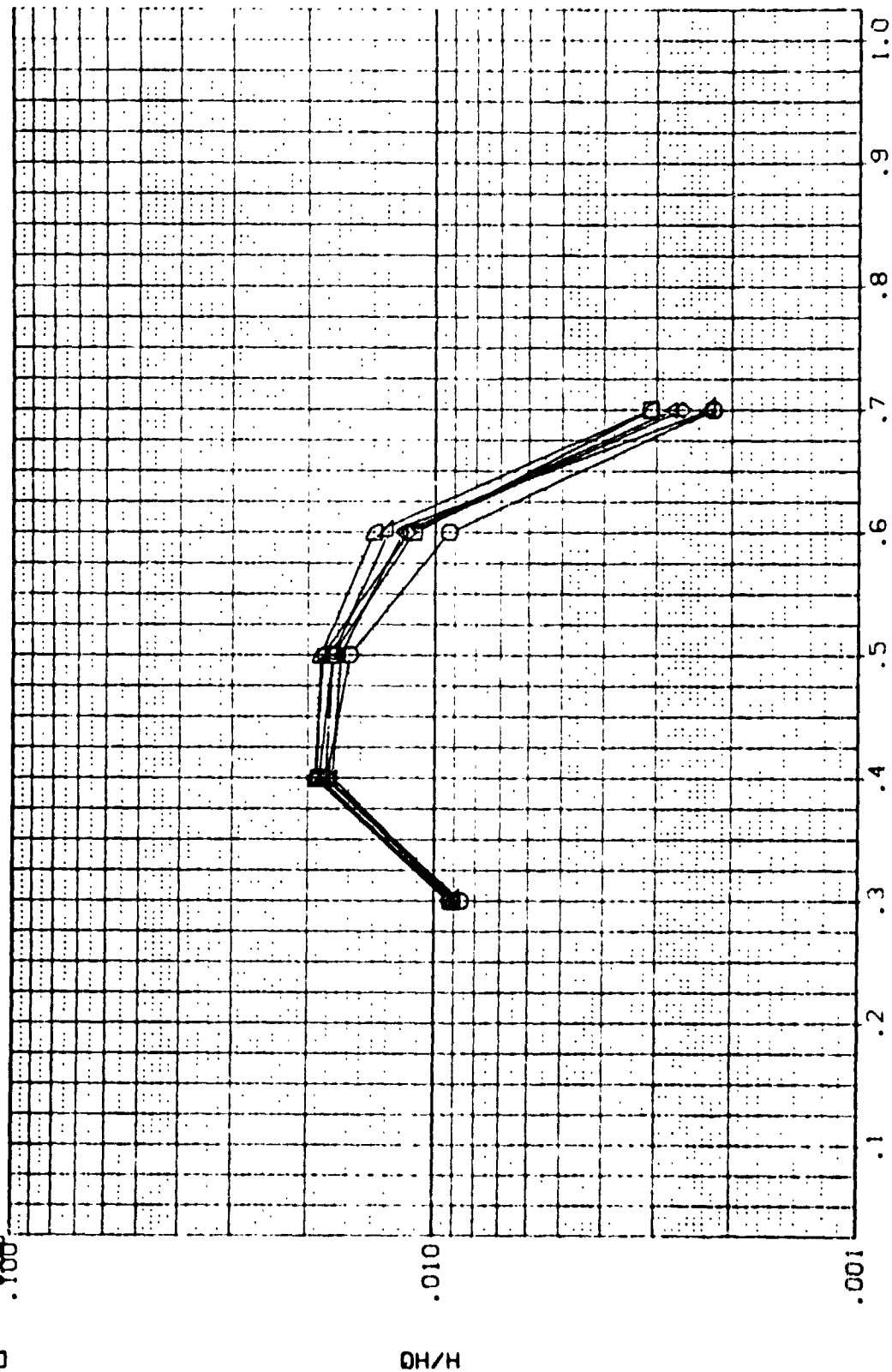


FIG 27 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 30 DEG. ANGLE OF ATTACK

(RQLS04) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
30.000 BETA .000
8.000

ALPHA
MACH

V.P.
465.000
MAD/WT .850

PN/L
3.000
4.000
4.500
5.000
5.500
6.000

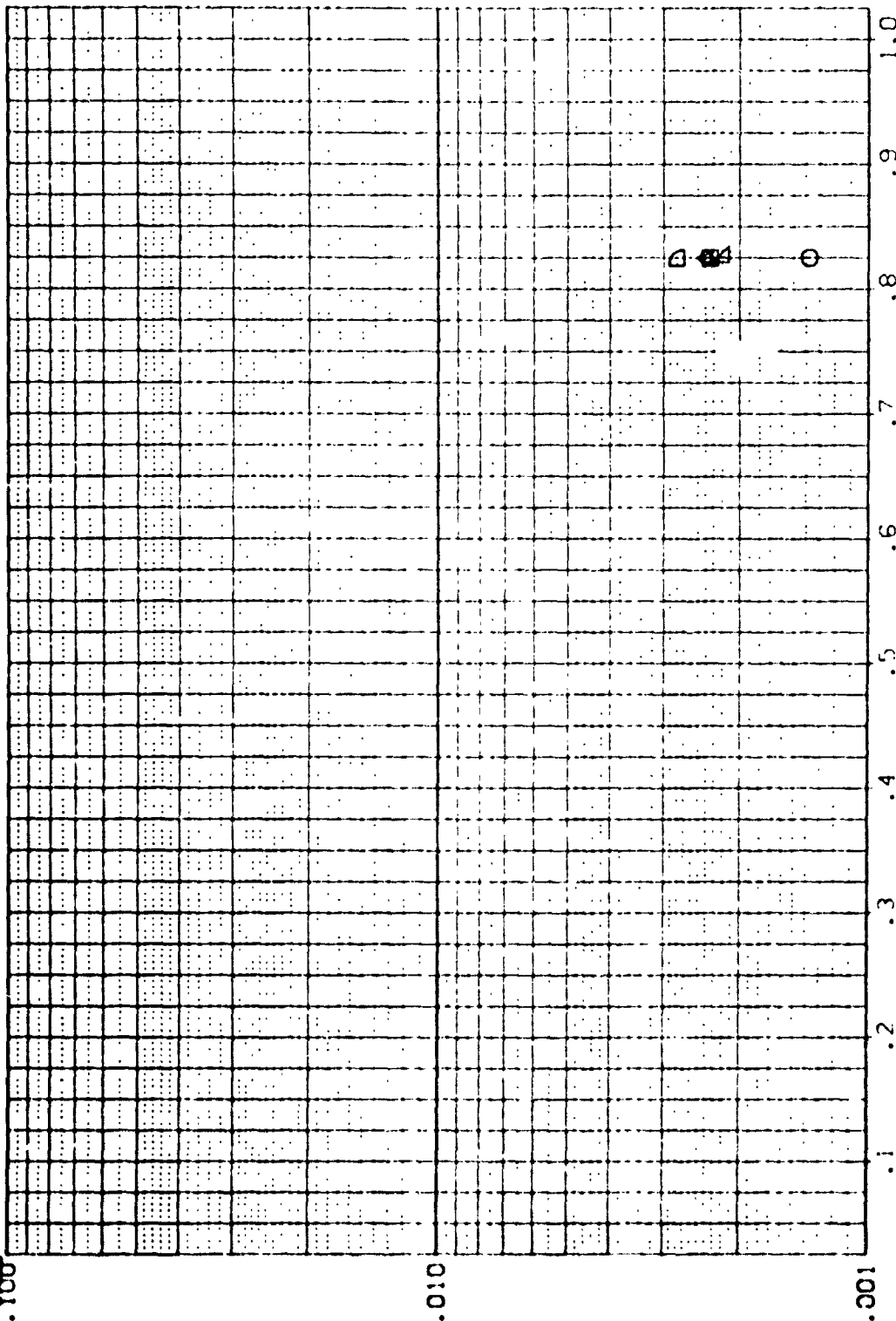


FIG 27 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 30 DEG. ANGLE OF ATTACK

(R0LS04) OH14 822C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYNTHETIC
RN/L
3.000
4.000
4.500
5.000
5.500
6.000

U.P.
SC1.000
HAW/HIT
.850

PARAMETRIC VALUES
ALPHA
MACH
30.000
8.000
BETA
.000

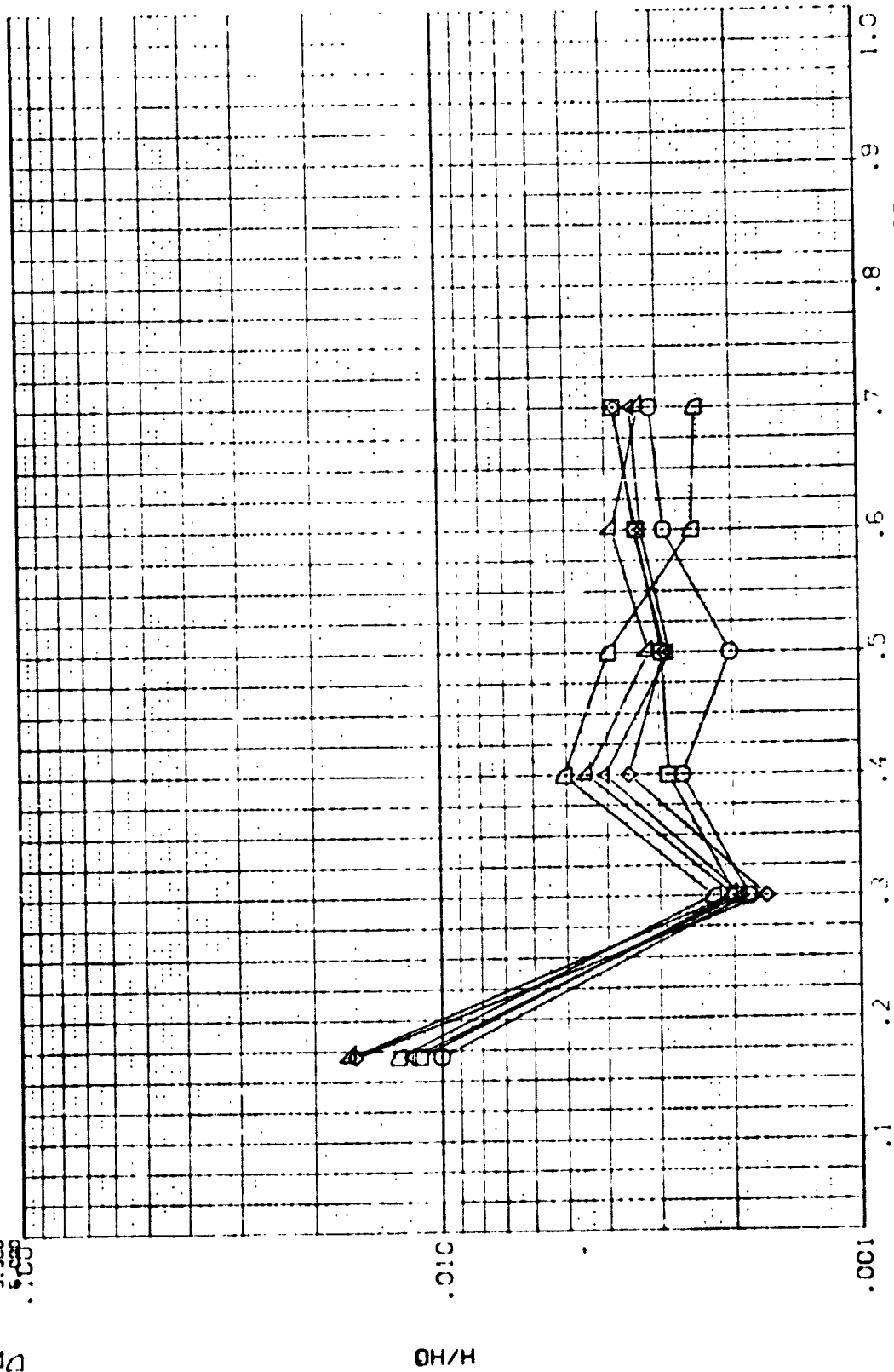


FIG 27 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 30 DEG. ANGLE OF ATTACK

(RQLSJ4) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
30.000 BETA
8.000

ALPHA
MACH

V.P.
375.000
HAW/HT .900

SV3GL
RN/L
3.000
4.000
4.500
5.000
5.500
6.000
6.100

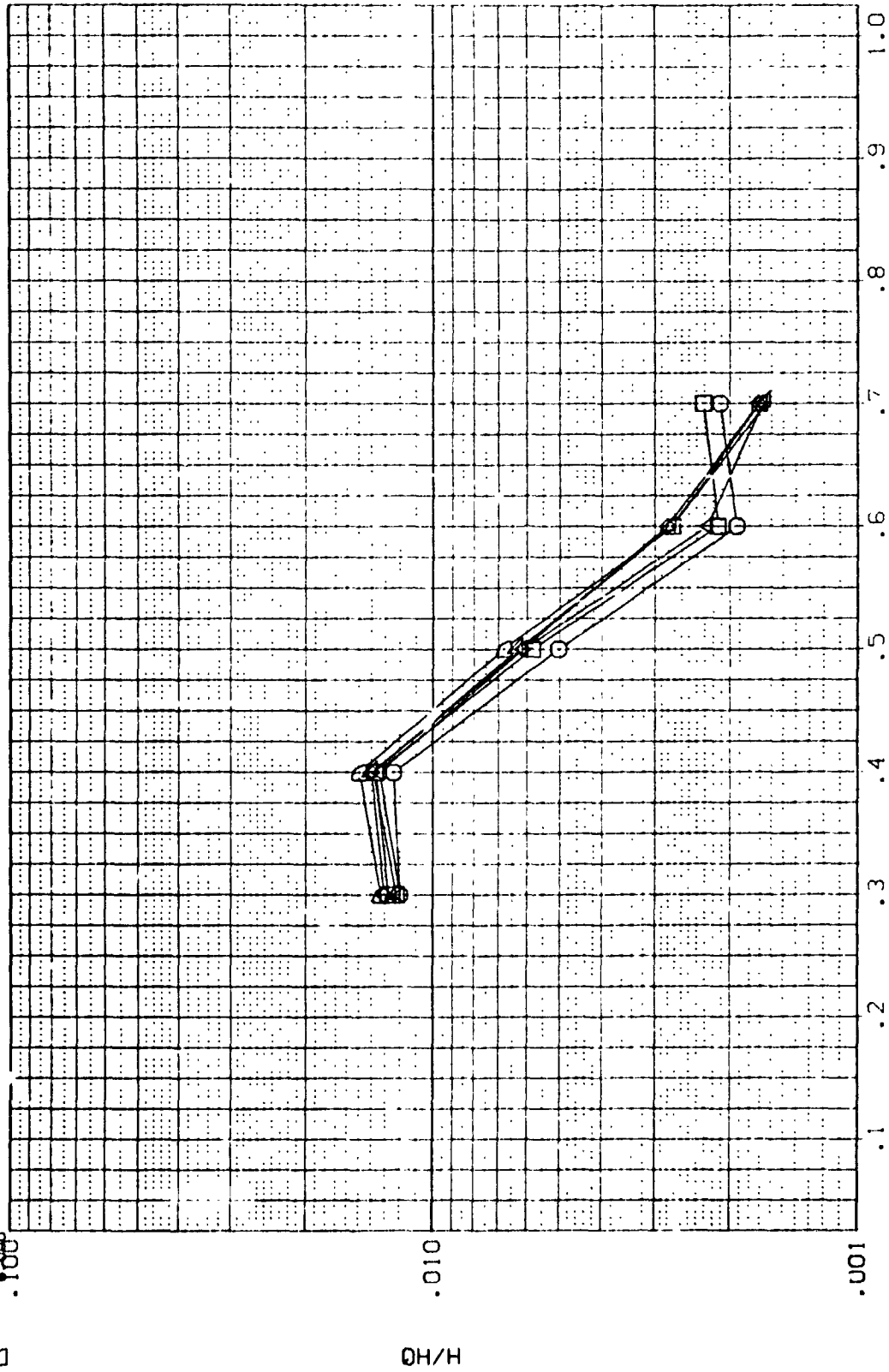


FIG 27 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 30 DEG. ANGLE OF ATTACK

(RQLS04) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYNTHOL RN/L 3.000 4.000 4.500 5.000 5.500 6.000
 W.P. 400.000
 HAN/HT .900
 ALPHA 1.4CH
 PARAMETRIC VALUES 30.000 BETA 8.000 .000

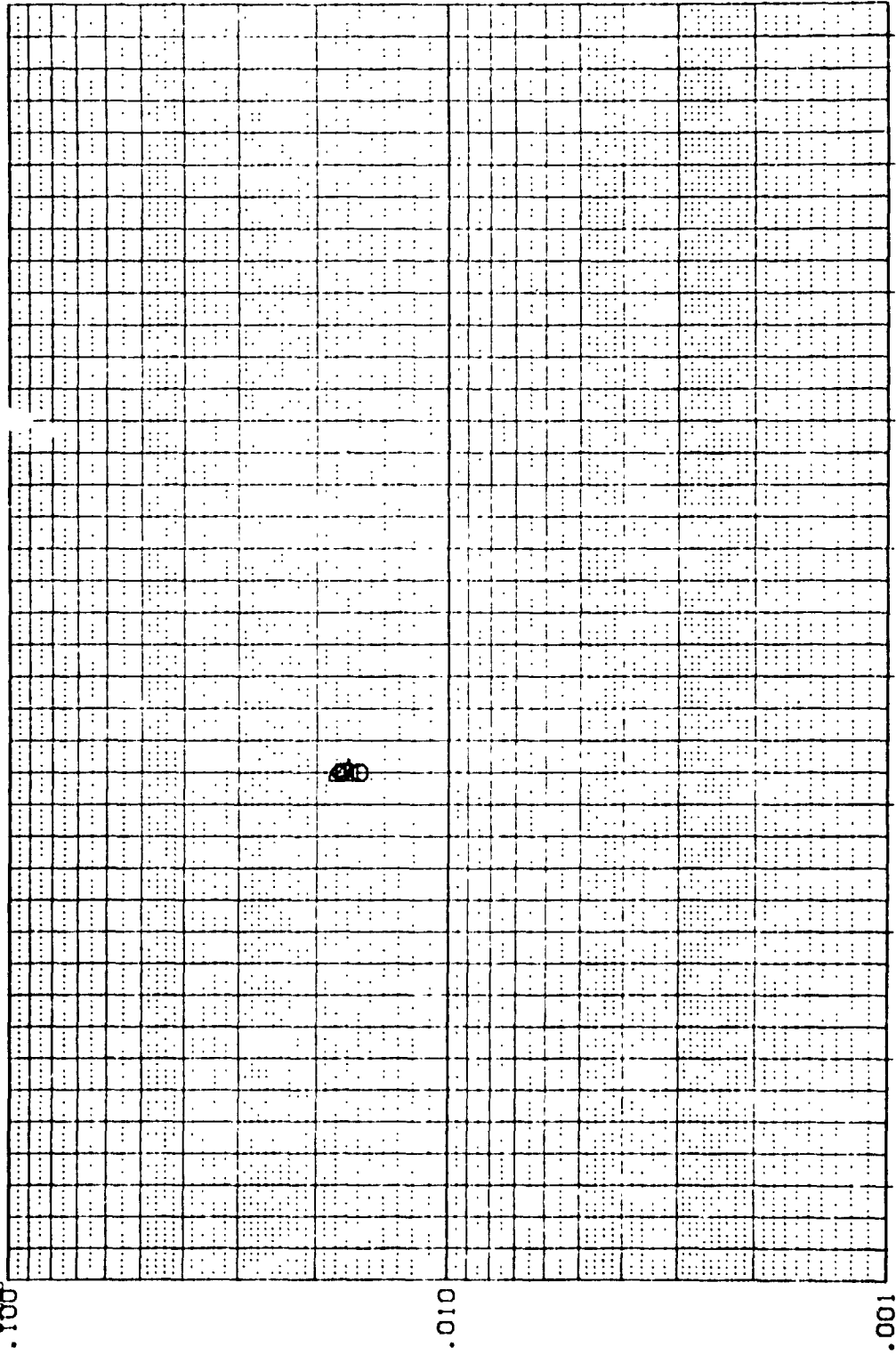


FIG 27 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 30 DEG. ANGLE OF ATTACK

(RQLS04) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 30,000 BETA .003
 8,000

SYMBOL
 3.000
 4.000
 4.500
 5.000
 5.500
 6.000

W.P.
 425,000
 .900

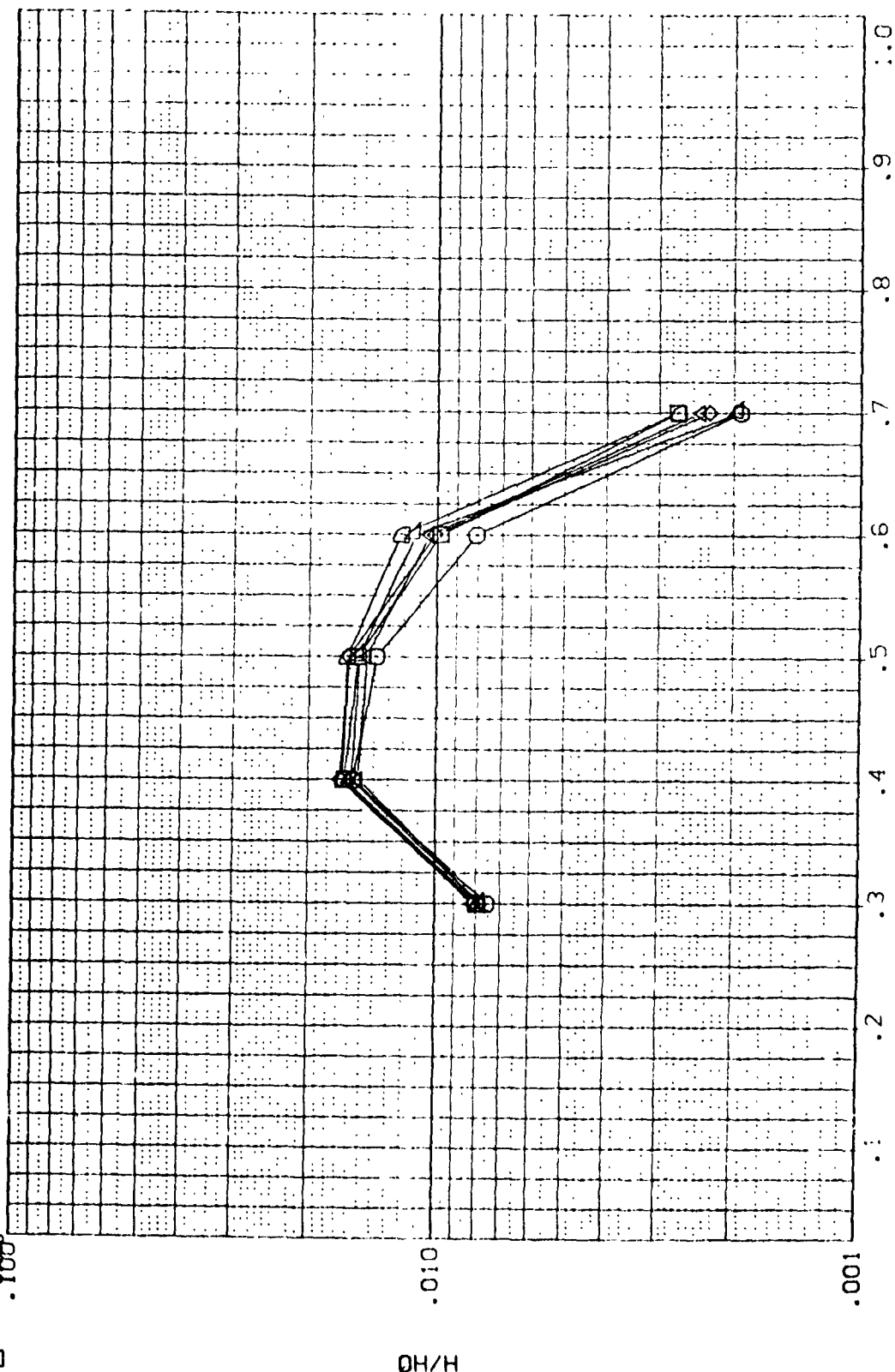


FIG 27 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 30 DEG. ANGLE OF ATTACK

(RQLS04) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL RN/L
3.000
4.000
4.500
5.000
5.500
6.000
6.100

V.P.
465.000
HAW/HT
.900

ALPHA
MACH

PARAMETRIC VALUES
30.000 BETA
8.000 .000

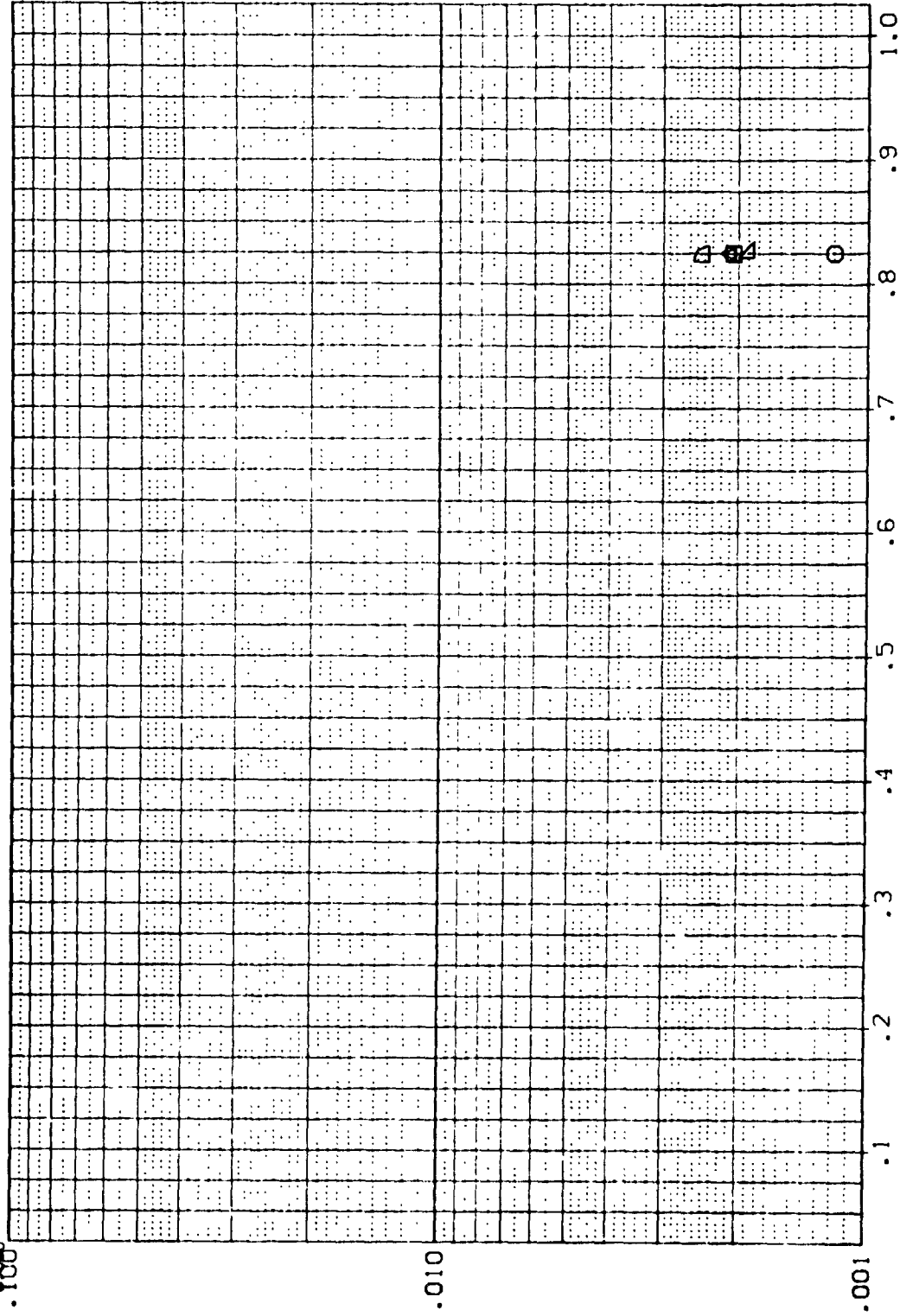


FIG 27 LONGITUDINAL FUSELAGE STATION. X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 30 DEG. ANGLE OF ATTACK

(RQLS04) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 30.000 BETA
 8.000

ALPHA
 MACH

V.P.
 501.000
 HAL/HT
 .900

SYMBOL
 RN/L
 3.000
 4.000
 4.500
 5.000
 5.500
 6.000

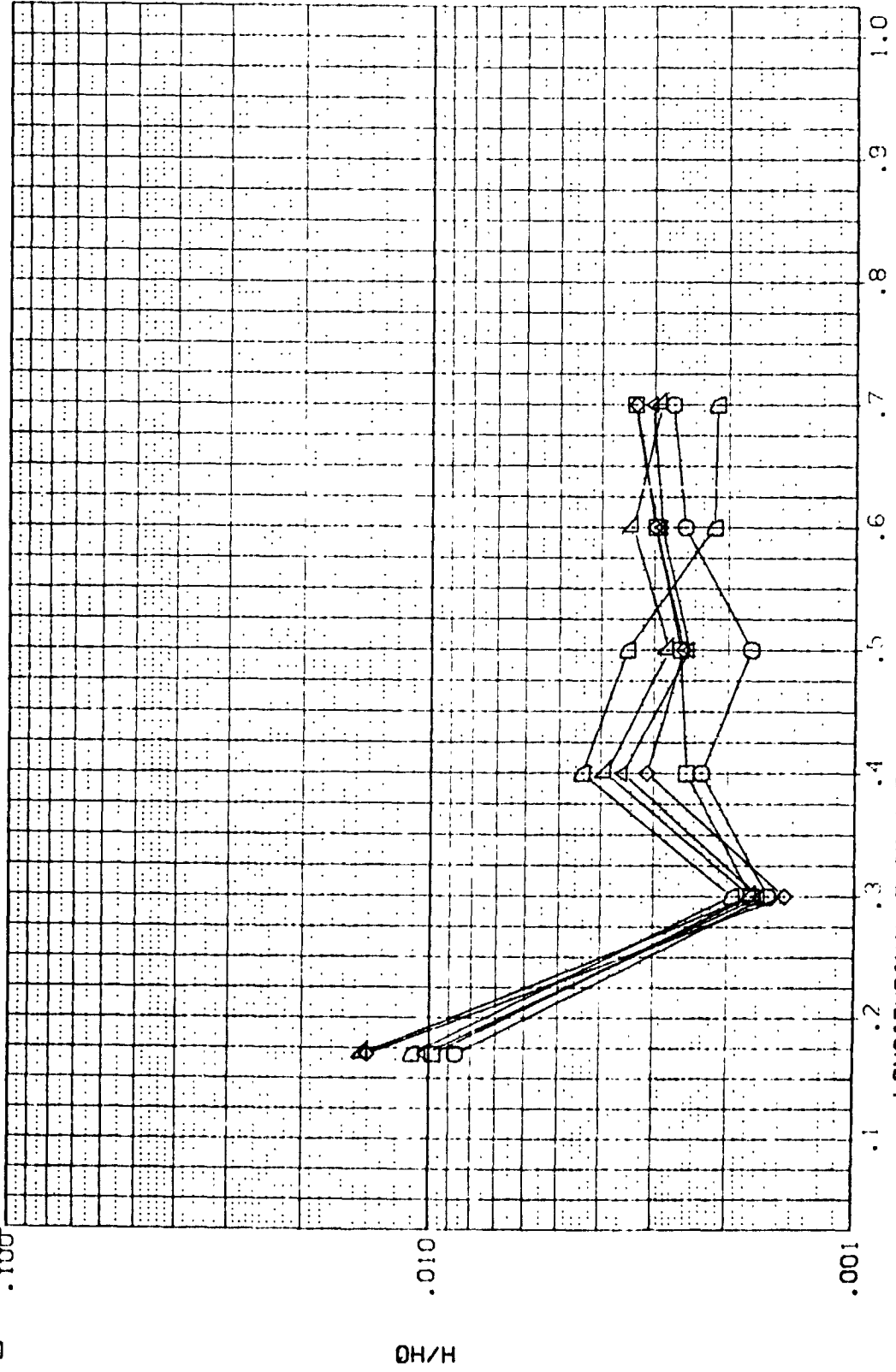


FIG 27 LONGITUDINAL FUSELAGE STATION, X/L - FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 30 DEG. ANGLE OF ATTACK

(RQLS04) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL
RN/L
1.000
4.000
5.000
6.000
8.000
10.000

V.P.
375.000
HAW/HT
.850

PARAMETRIC VALUES
ALPHA
MACH
30.000
8.000
BETA
.000

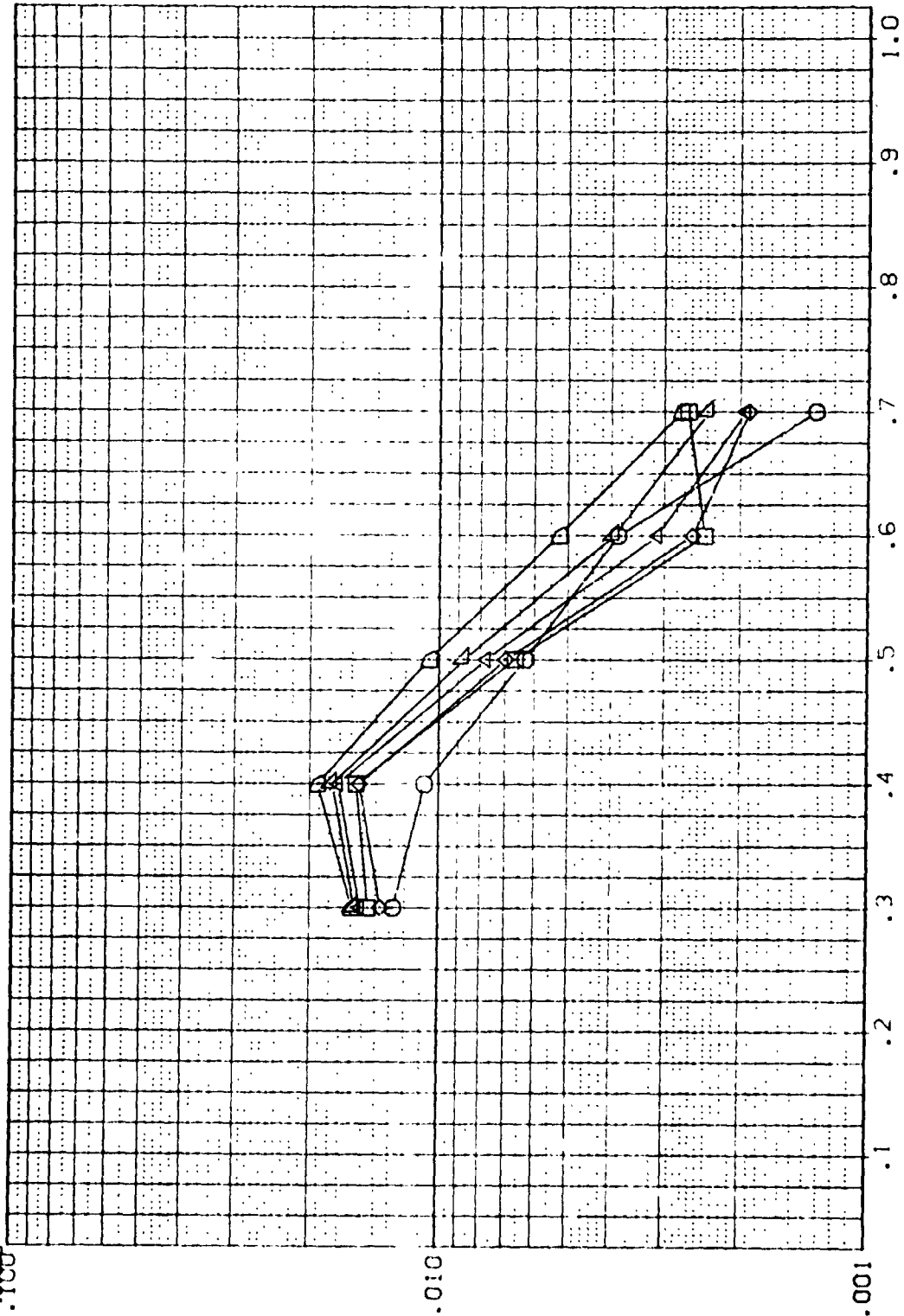


FIG 27 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 30 DEG. ANGLE OF ATTACK

(RQLS04) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 30.000 BETA
 8.000
 .000

ALPHA
 MACH

SYMBOL
 RN/L
 1.000
 4.000
 5.000
 6.000
 8.000
 10.000

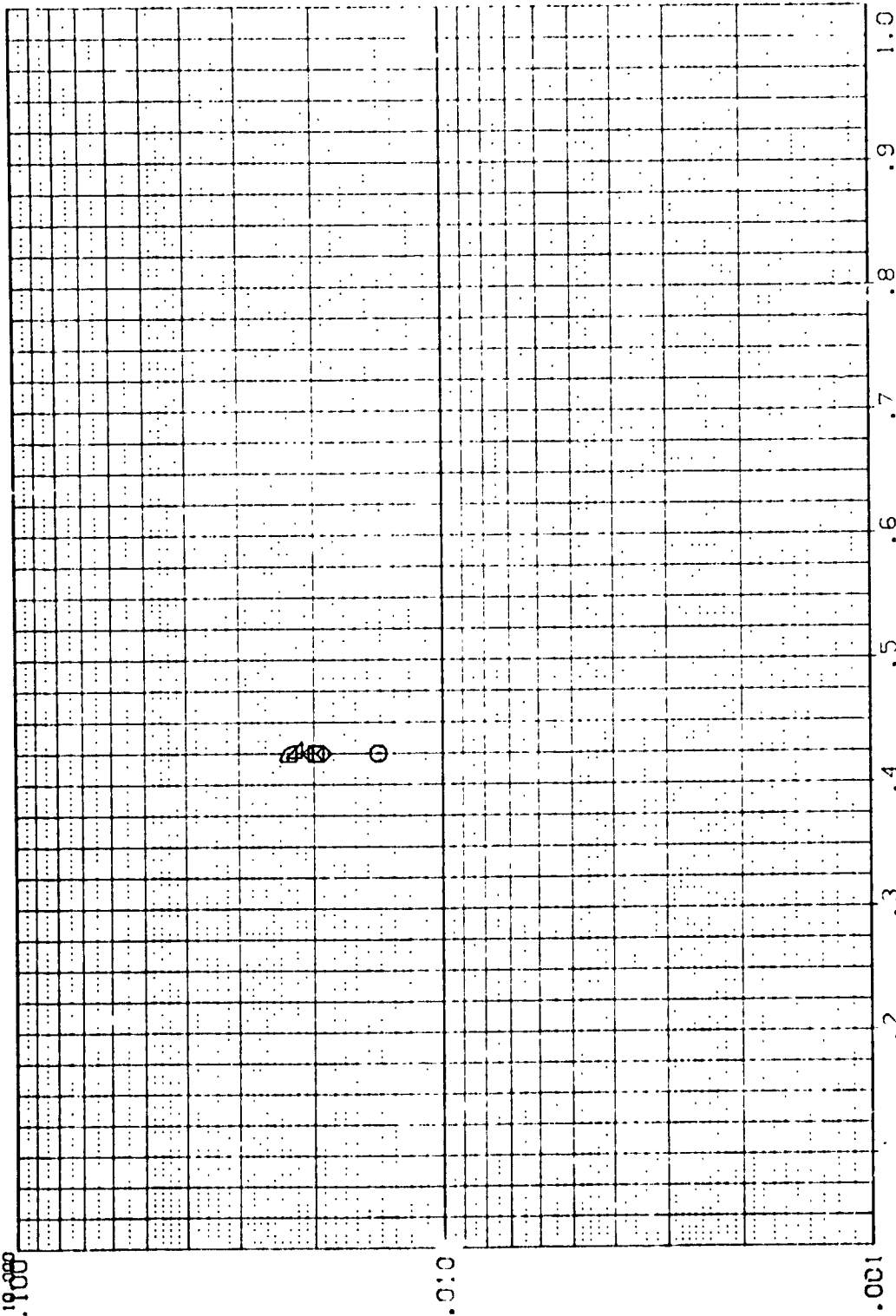


FIG 2/ VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 30 DEG. ANGLE OF ATTACK

(R0LS04) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL RN/L V.P. HA/H HT .850 ALPHA MACH .000 BETA .000

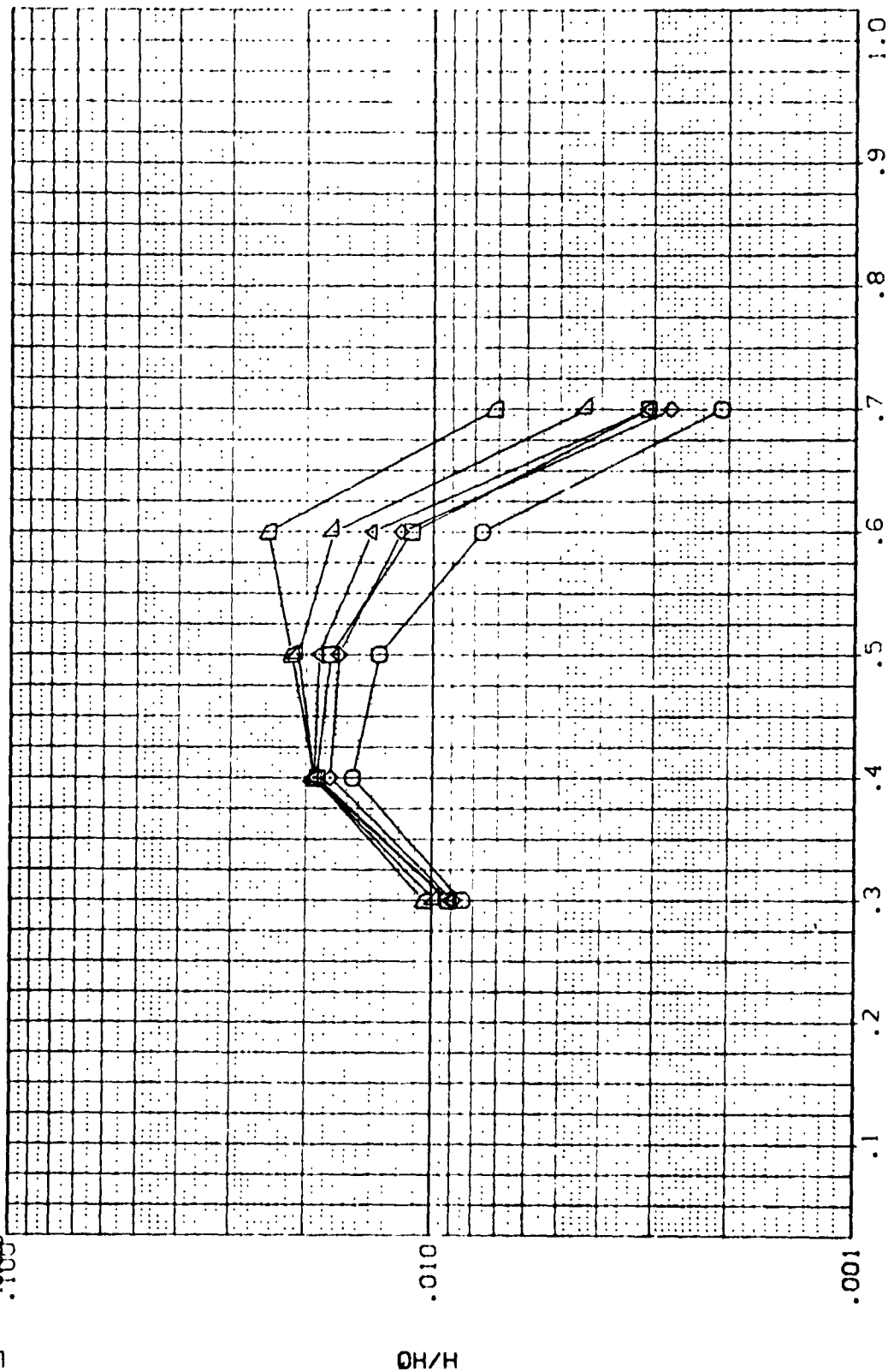


FIG 27 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 30 DEG. ANGLE OF ATTACK

(R0LS04) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 ALPHA 30.000 BETA .003
 MACH 8.000

W.P. 465.000
 HAW/HT .850

SYMBOL RN/L
 1.000
 4.000
 5.000
 6.000
 8.000
 10.000

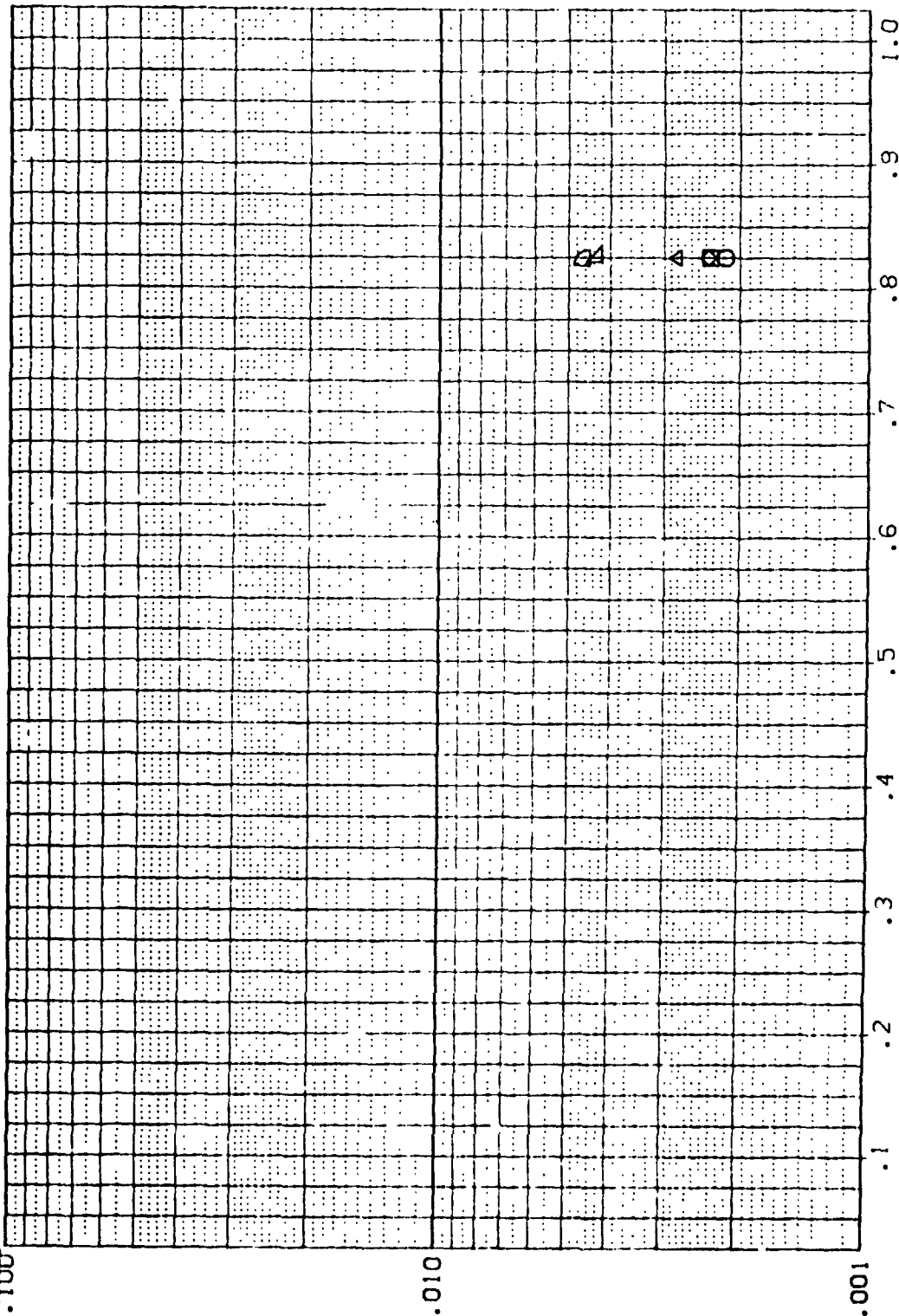


FIG 27 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 30 DEG. ANGLE OF ATTACK

(RQLS04) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 ALPHA MACH 30.000 8.000
 BETA .000

SYMBOL RN/L V.P. 501.000
 1.000
 4.000
 5.000
 6.000
 8.000
 10.000

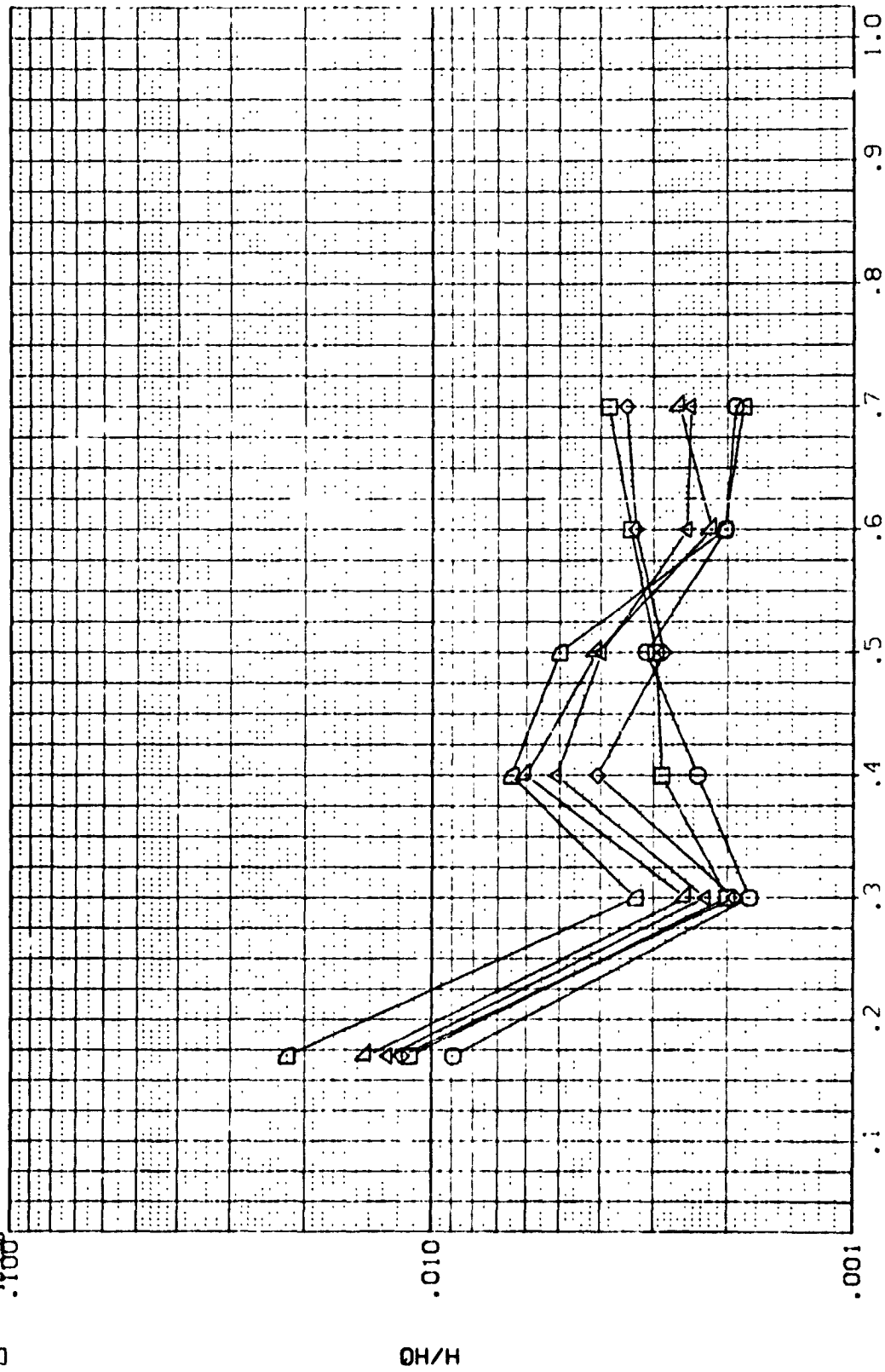


FIG 27 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 30 DEG. ANGLE OF ATTACK

(RQLS04) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
30.000 BETA
8.000

ALPHA
MACH

V.P.
375.000
NAV/HT
.900

SYMBOL
RN/L
1.000
4.000
5.000
6.000
8.000
10.000

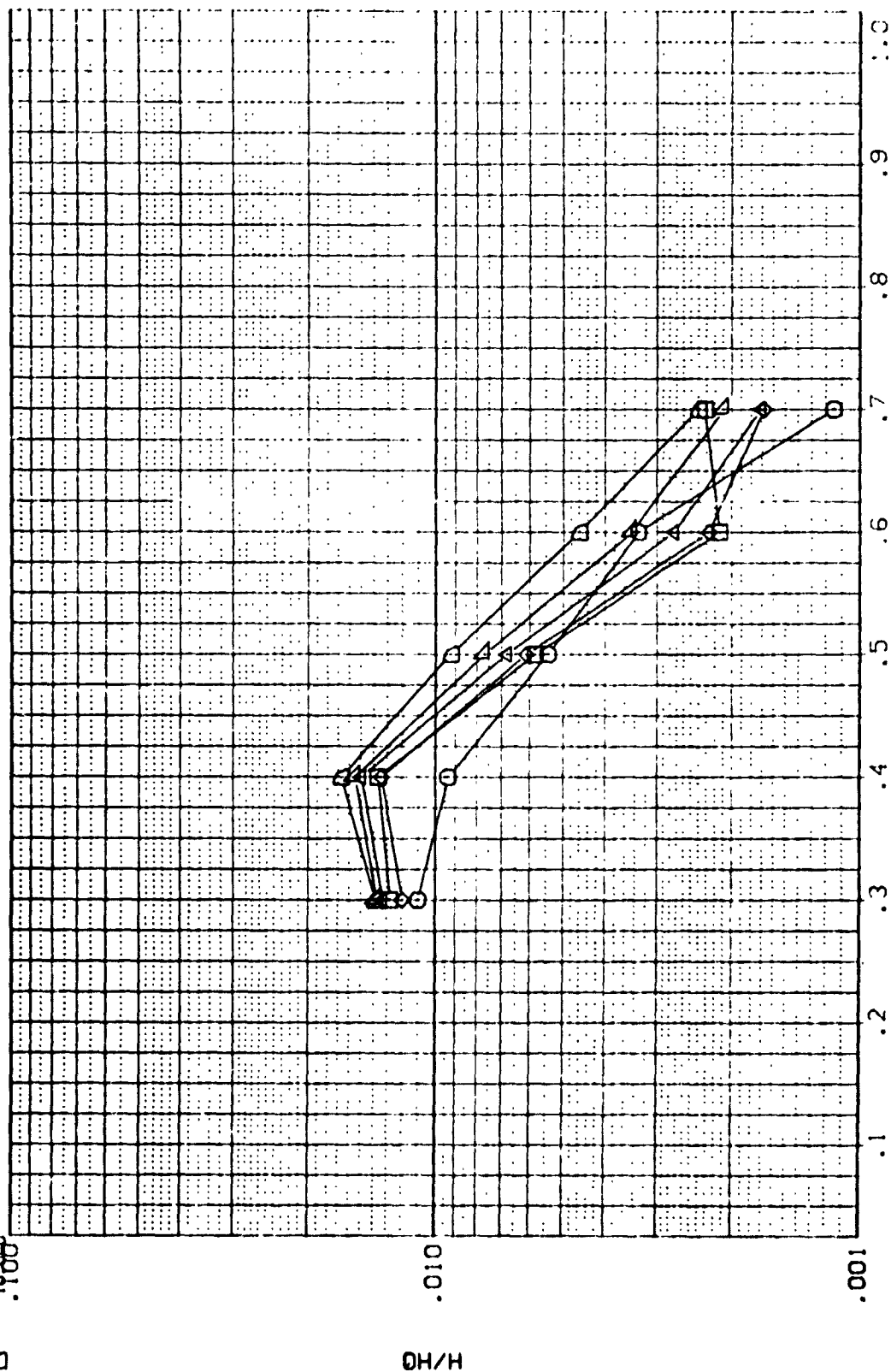


FIG 27 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 30 DEG. ANGLE OF ATTACK

(R0LS04) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL RN/L
1.000
4.000
5.000
6.000
8.000
10.000

M.P.
400.000
MACH/L
.900

PAR METRIC VALUES
ALPHA MACH
30.000 BETA
8.000 .000

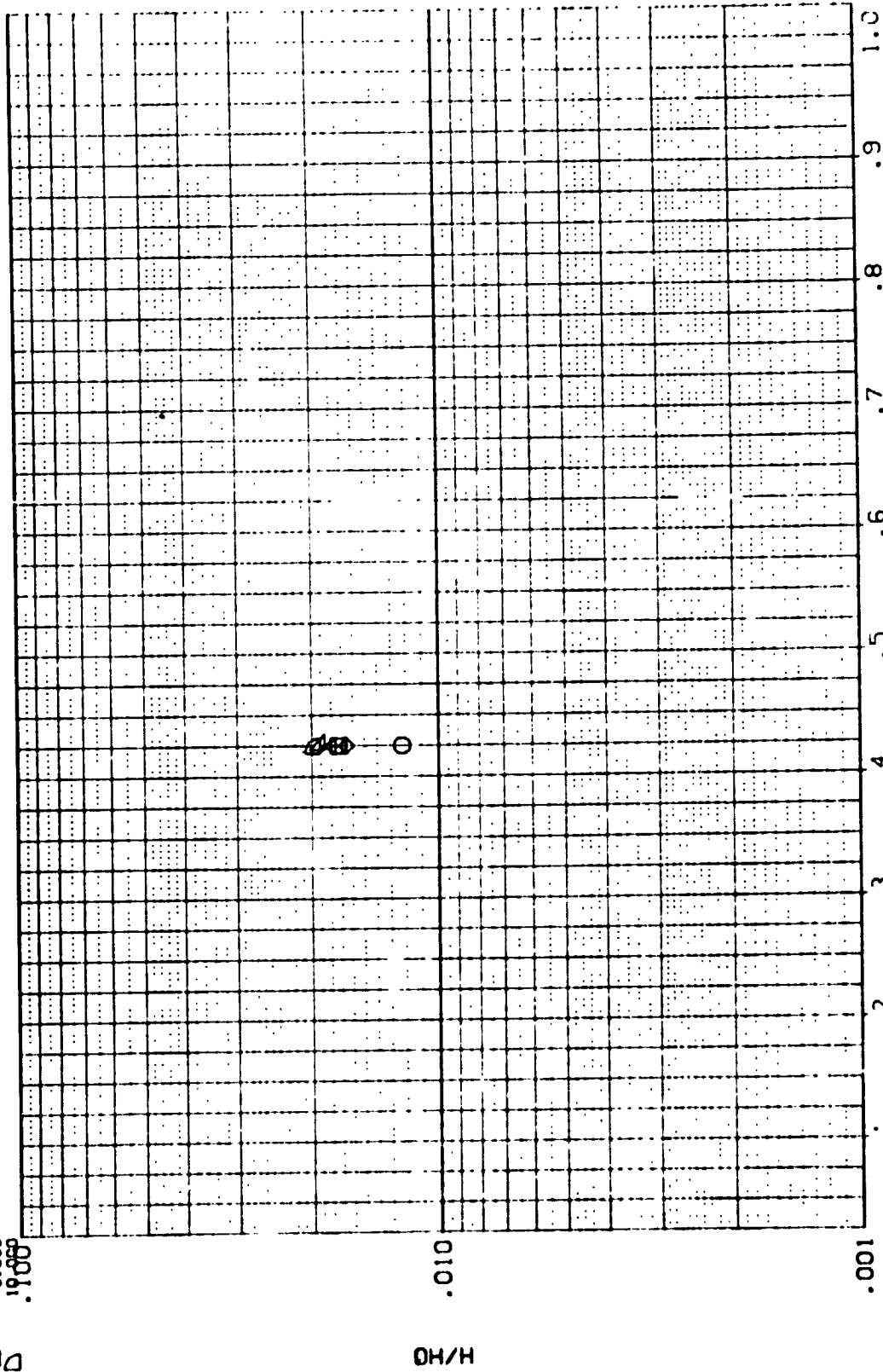


FIG 27 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 30 DEG. ANGLE OF ATTACK
PAGE 395

(RQLS04) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 30.000 BETA
 8.000
 .000

SYMBOL
 1.000
 4.000
 5.000
 6.000
 8.000
 10.000

OH/H

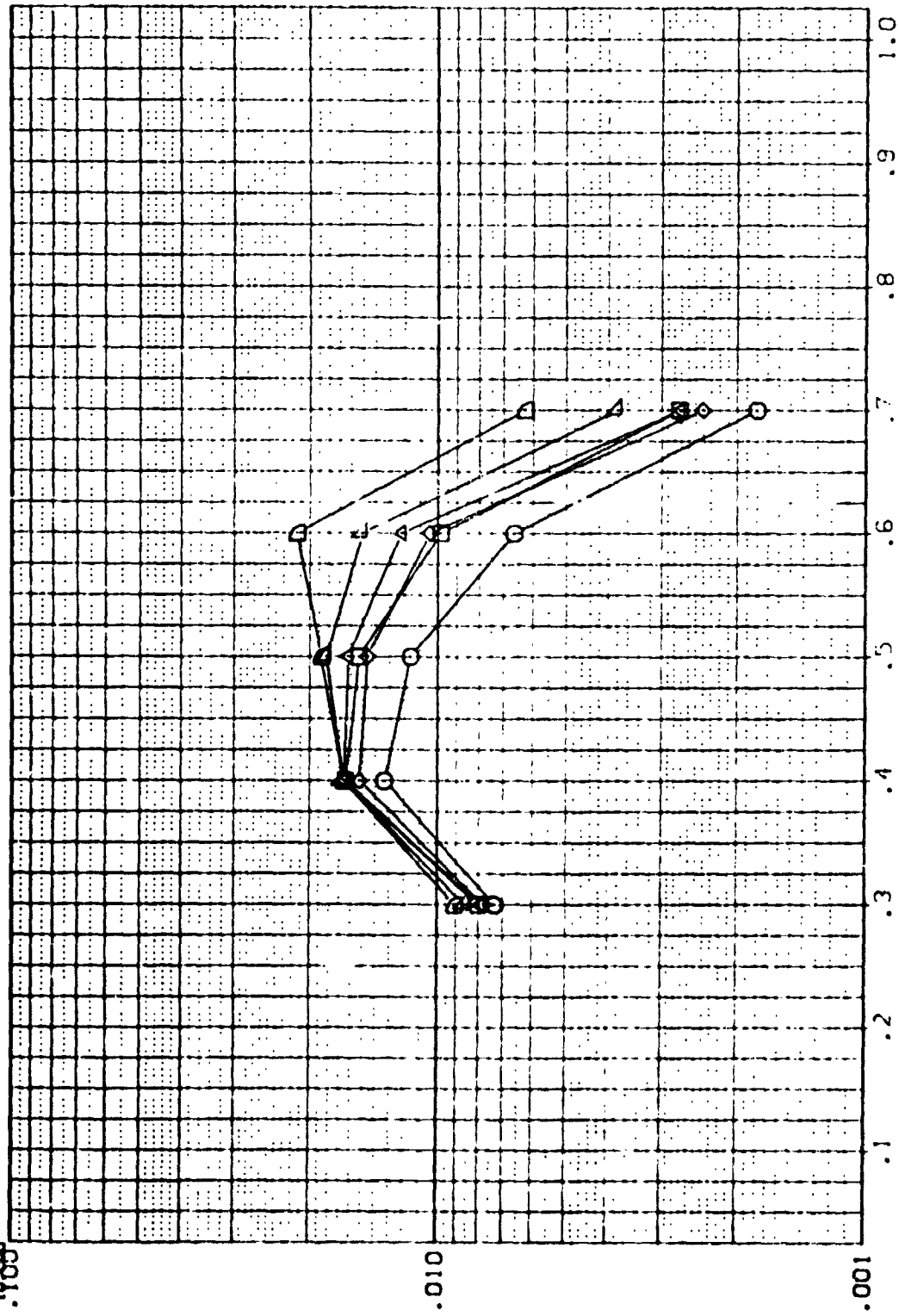


FIG 27 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 30 DEG. ANGLE OF ATTACK

(R0LS04) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL RN/L
1.000
4.000
5.000
6.000
8.000
10.000

W.P.
465.000
-M_∞/M_∞
.900

ALPHA
MACH

PARAMETRIC VALUES
30.000 BETA
8.000

.000

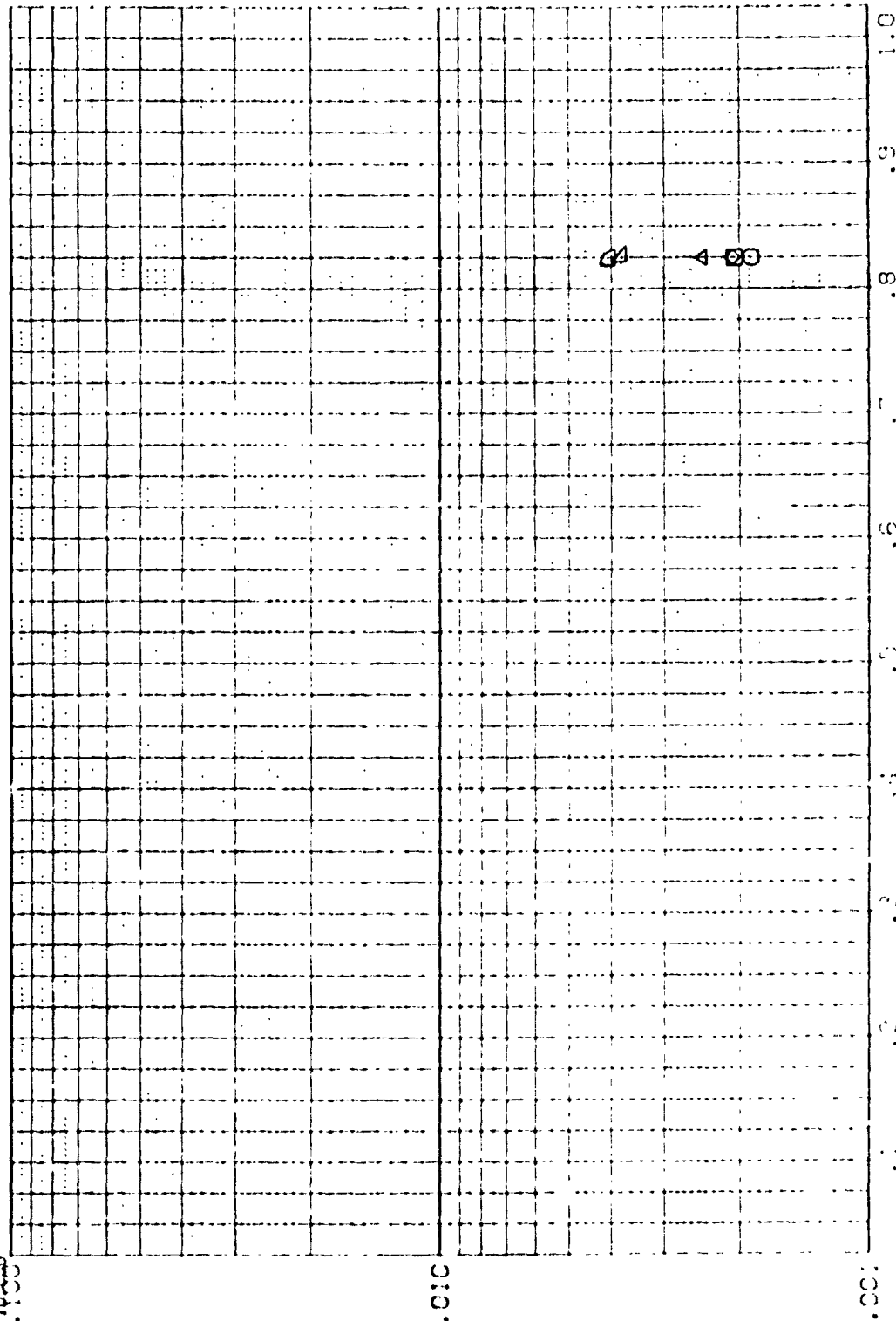


FIG 27 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 30 DEG. ANGLE OF ATTACK

(RQLS04) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 ALPHA MACH 30.000 BETA 8.000 .000

V.P. 501.000
 HAW/HT .900

SYMBOL RN/L 1.000
 4.000
 5.000
 6.000
 8.000
 10.000

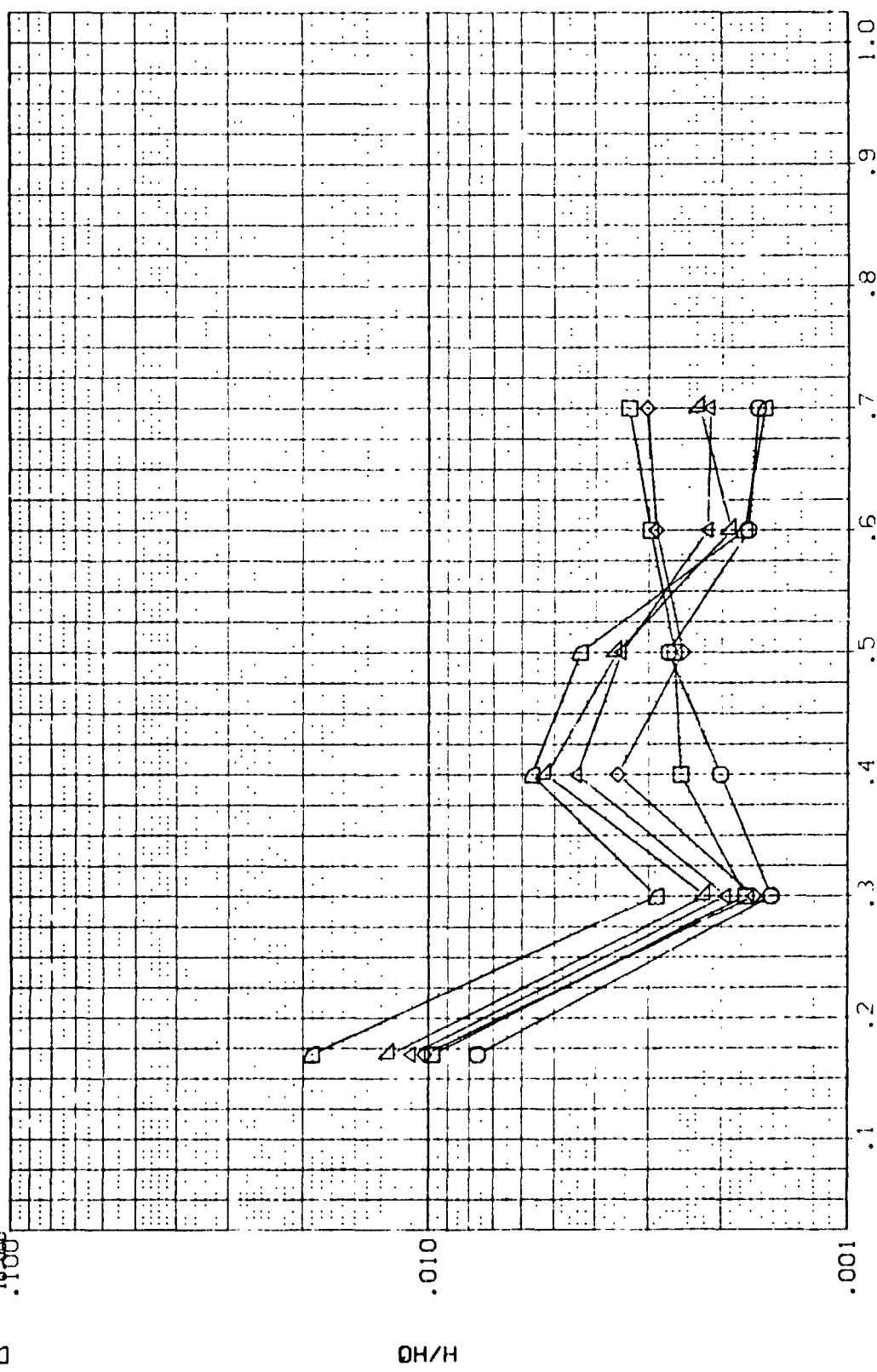


FIG 27 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 30 DEG. ANGLE OF ATTACK

(RQLB05) CH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL RN/L
 3.000
 4.000
 5.000
 6.000
 8.000
 10.000

B.P.
 .000 .850

ALPHA
 MACH

PARAMETRIC VALUES
 35.000 BETA
 8.000

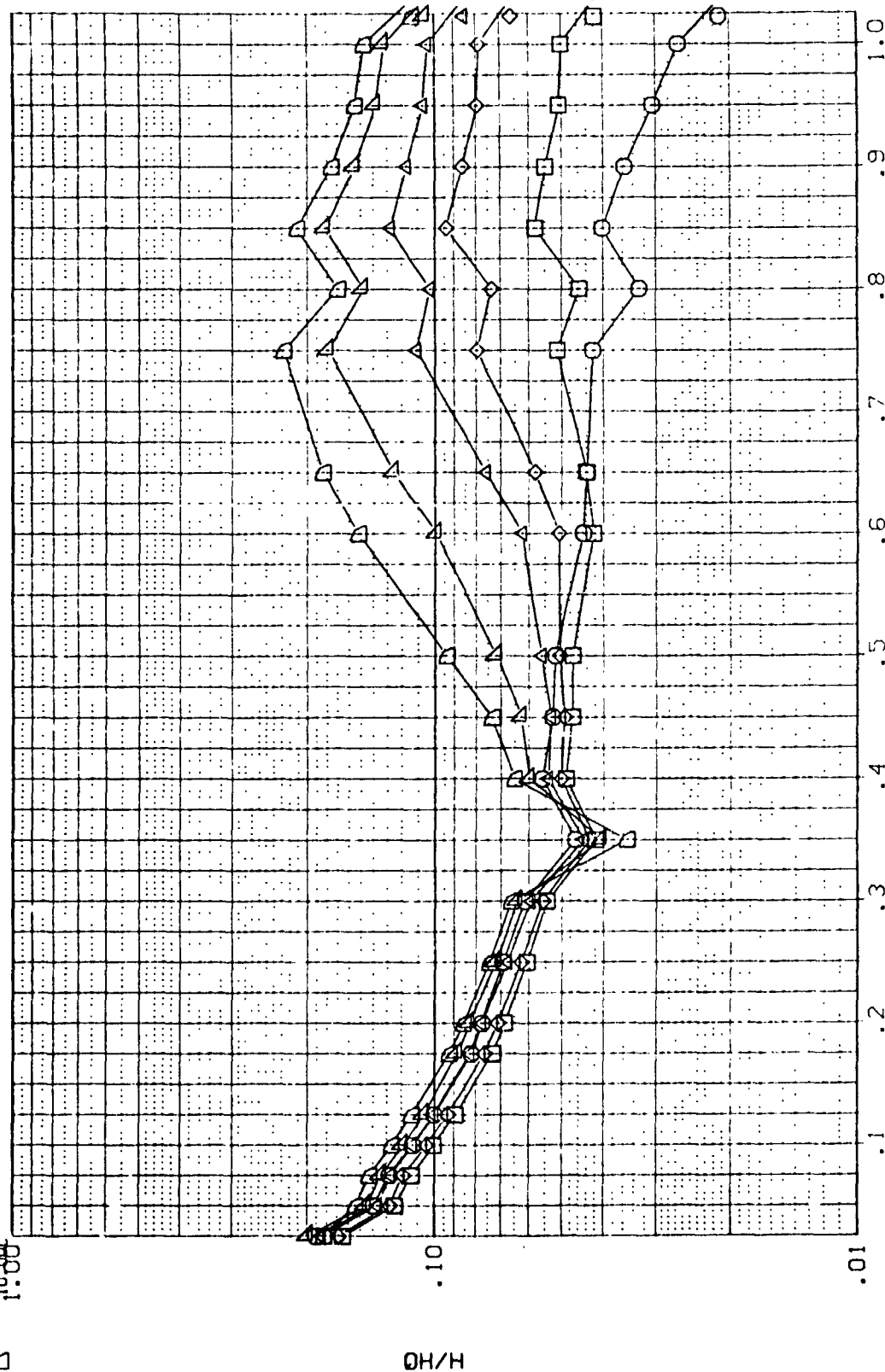


FIG 28 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE LOWER SURFACE AT 35 DEG. ANGLE OF ATTACK

(RQLB05) OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SY800
RV/L
3.000
4.000
5.000
6.000
8.000
10.000

B.P.
117.000
HAW/HT
.850

PARAMETRIC VALUES
ALPHA
MACH
35.000
8.000
BETA
.000

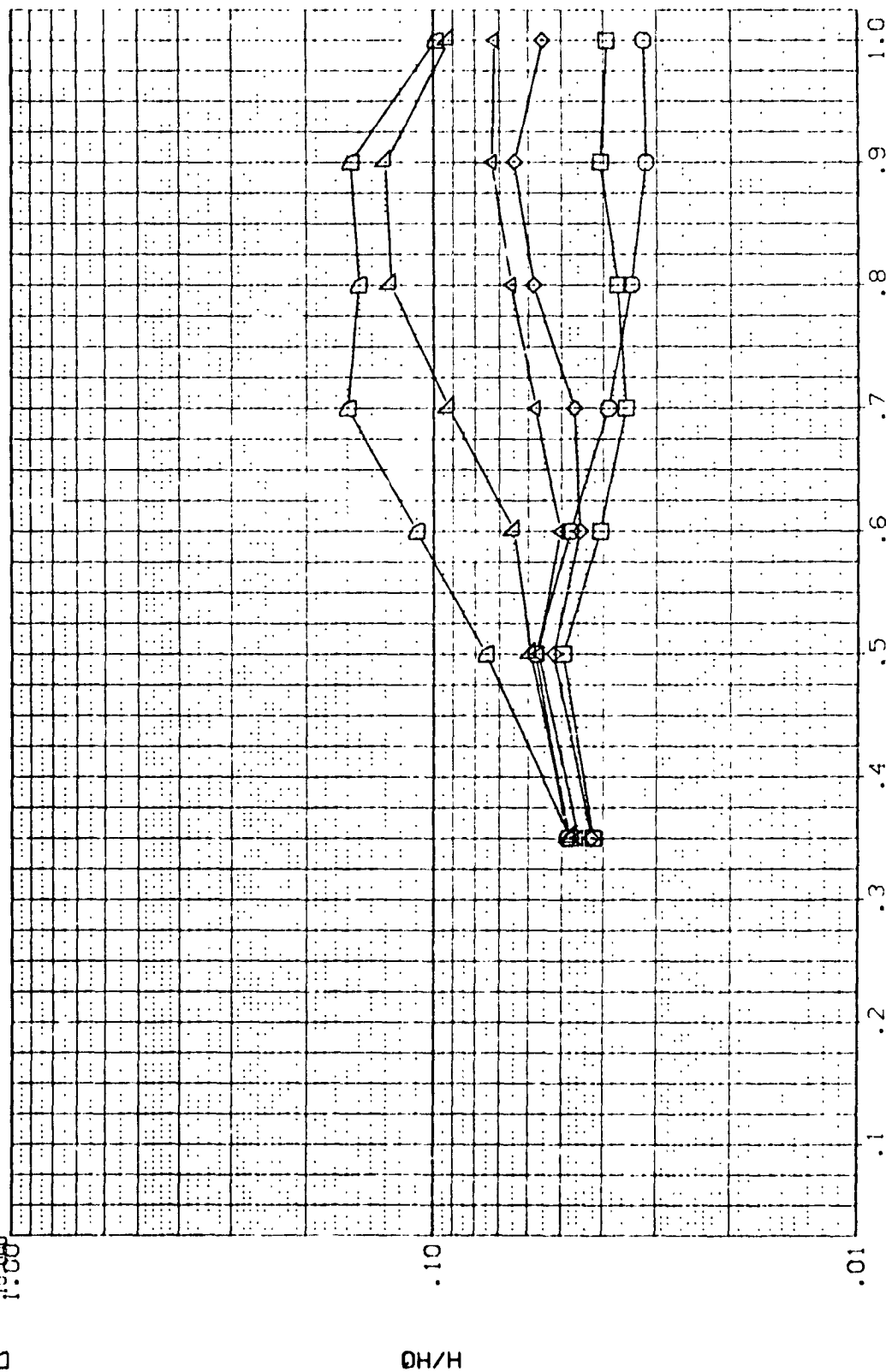


FIG 28 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE LOWER SURFACE AT 35 DEG. ANGLE OF ATTACK

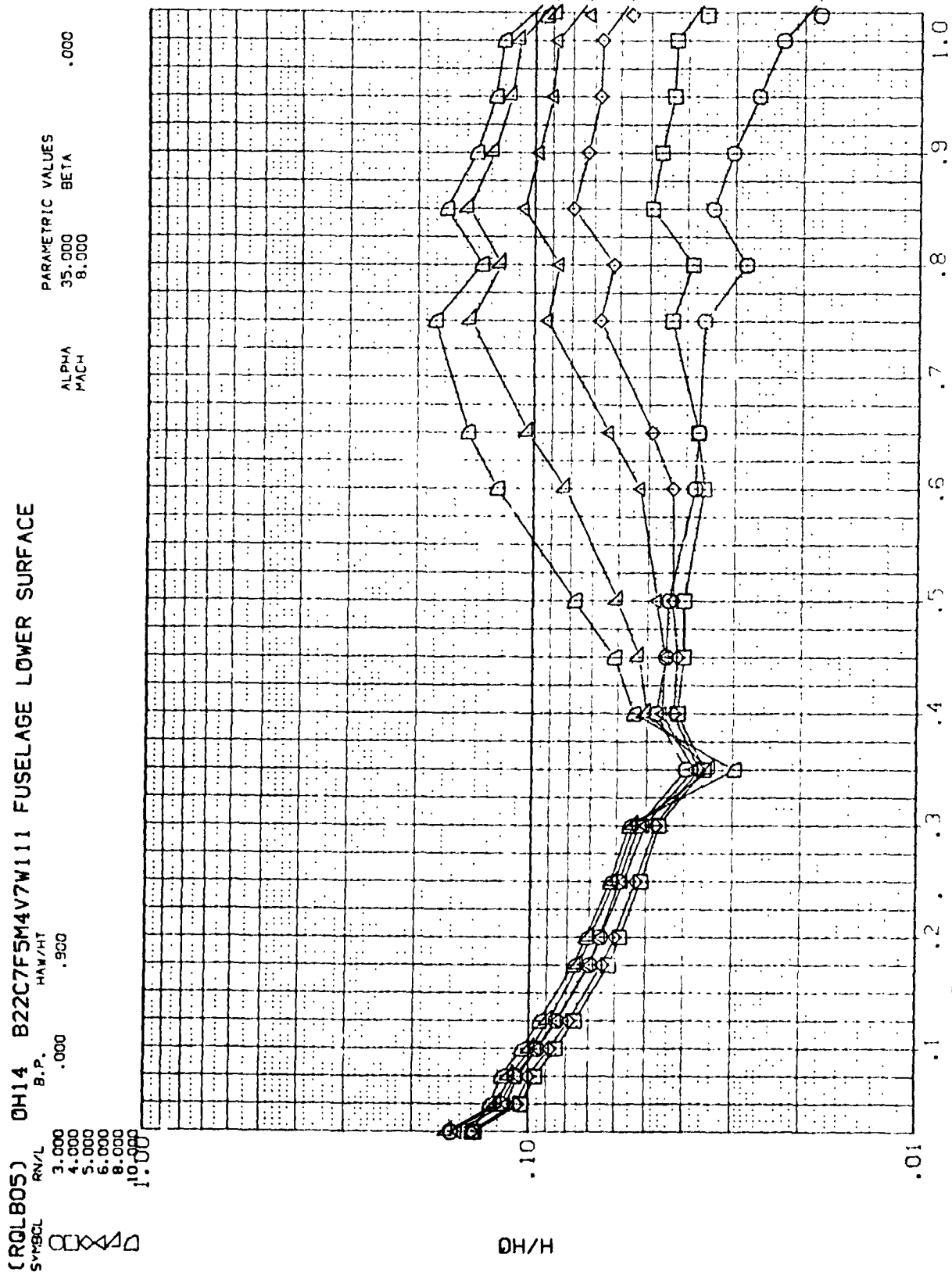


FIG 28

(RQLB05) 0H14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

PARAMETRIC VALUES
 BETA
 35.000
 8.000

ALPHA
 HACH

B.P.
 117.000
 HAW/HIT
 .900

SYMBOL
 RN/L
 3.000
 4.000
 5.000
 6.000
 8.000
 10.000

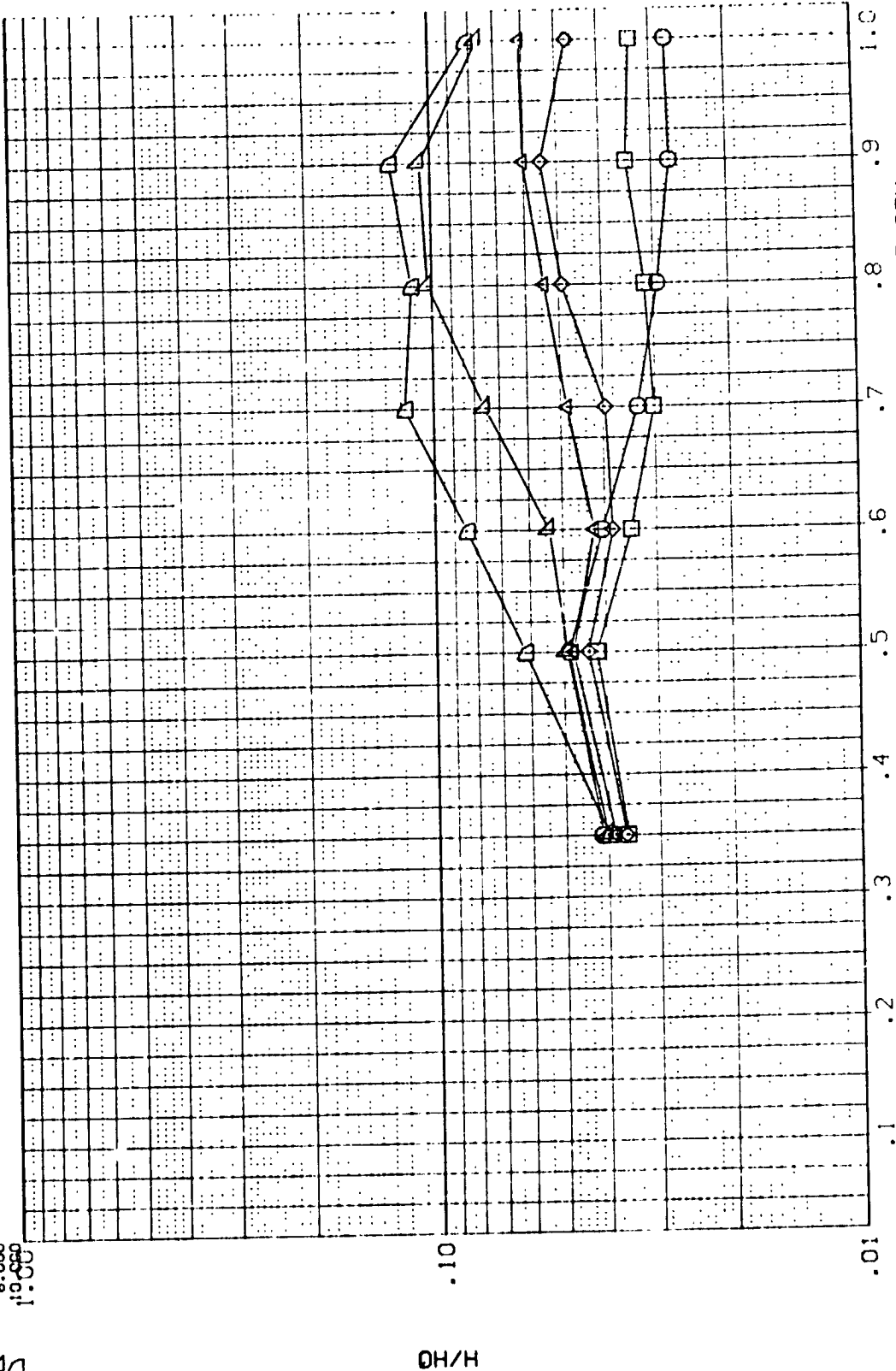


FIG 28 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE LOWER SURFACE AT 35 DEG. ANGLE OF ATTACK

(RQLB05) 0H14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

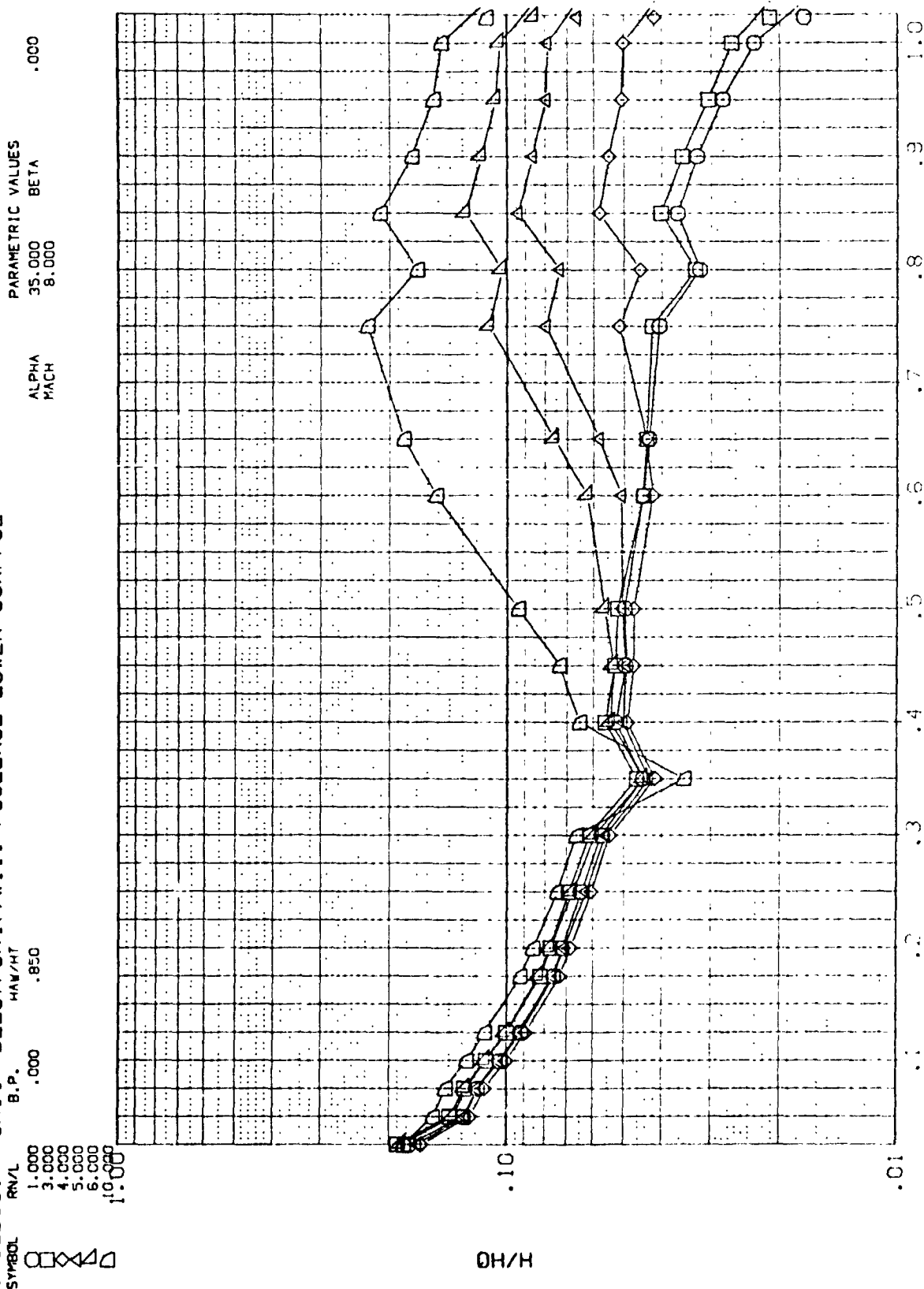


FIG 28

(RQLB05) 0H14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

PARAMETRIC VALUES
 ALPHA 35.000 BETA .000
 MACH 8.000

SYMBOL
 1.000
 3.000
 4.000
 5.000
 6.000
 10.000

0H/H
 1.000
 3.000
 4.000
 5.000
 6.000
 10.000

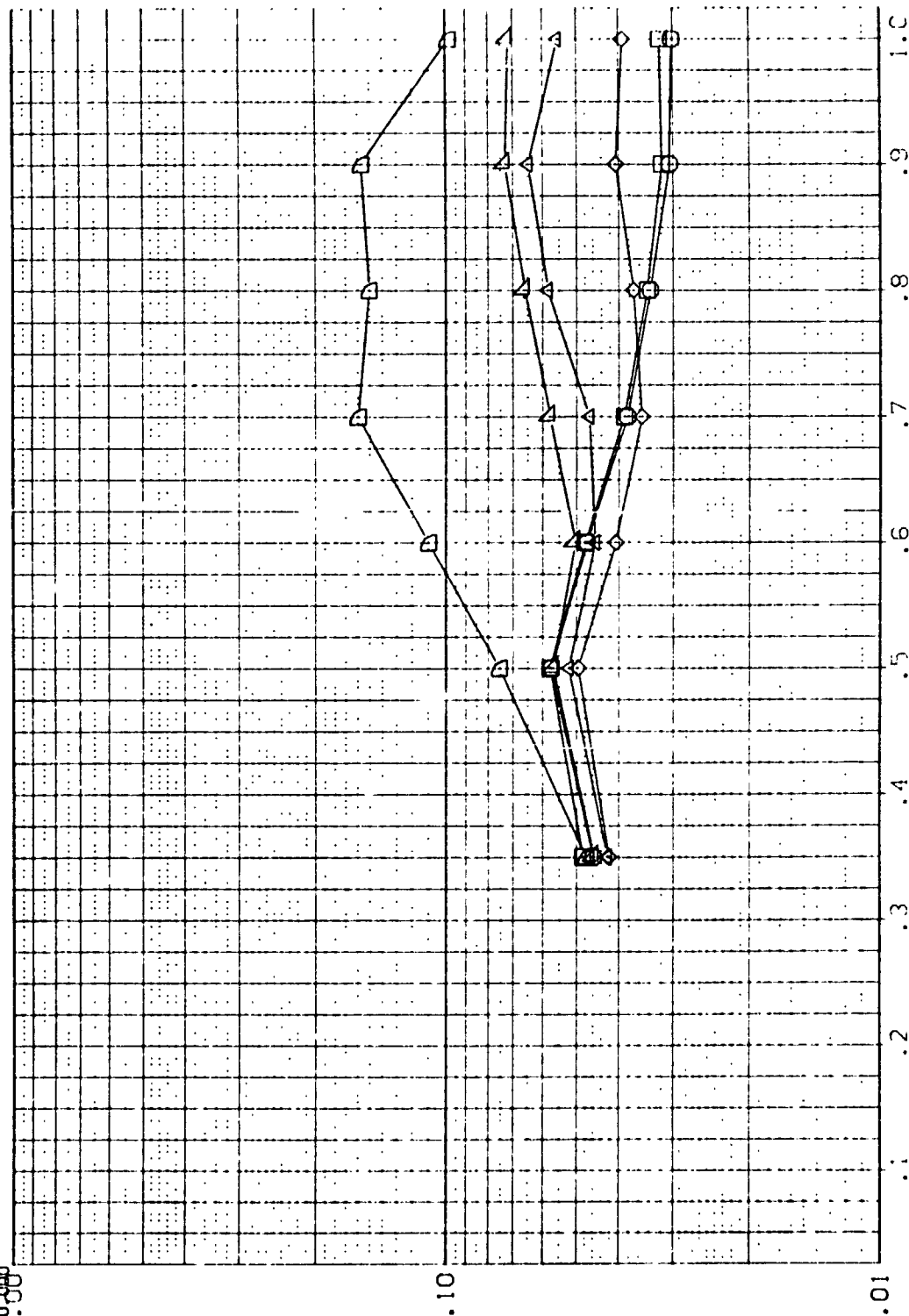


FIG 28 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE LOWER SURFACE AT 35 DEG. ANGLE OF ATTACK

(RQLB05) OH14 B22C7F5M4V7W:11 FUSELAGE LOWER SURFACE

SYMBOLS: \square \circ \triangle \diamond ∇

PARAMETRIC VALUES

| PARAMETER | VALUE |
|------------|--------|
| ALPHA MACH | 35.000 |
| BETA | 8.000 |
| B.P. | .000 |
| HAW/HT | .900 |

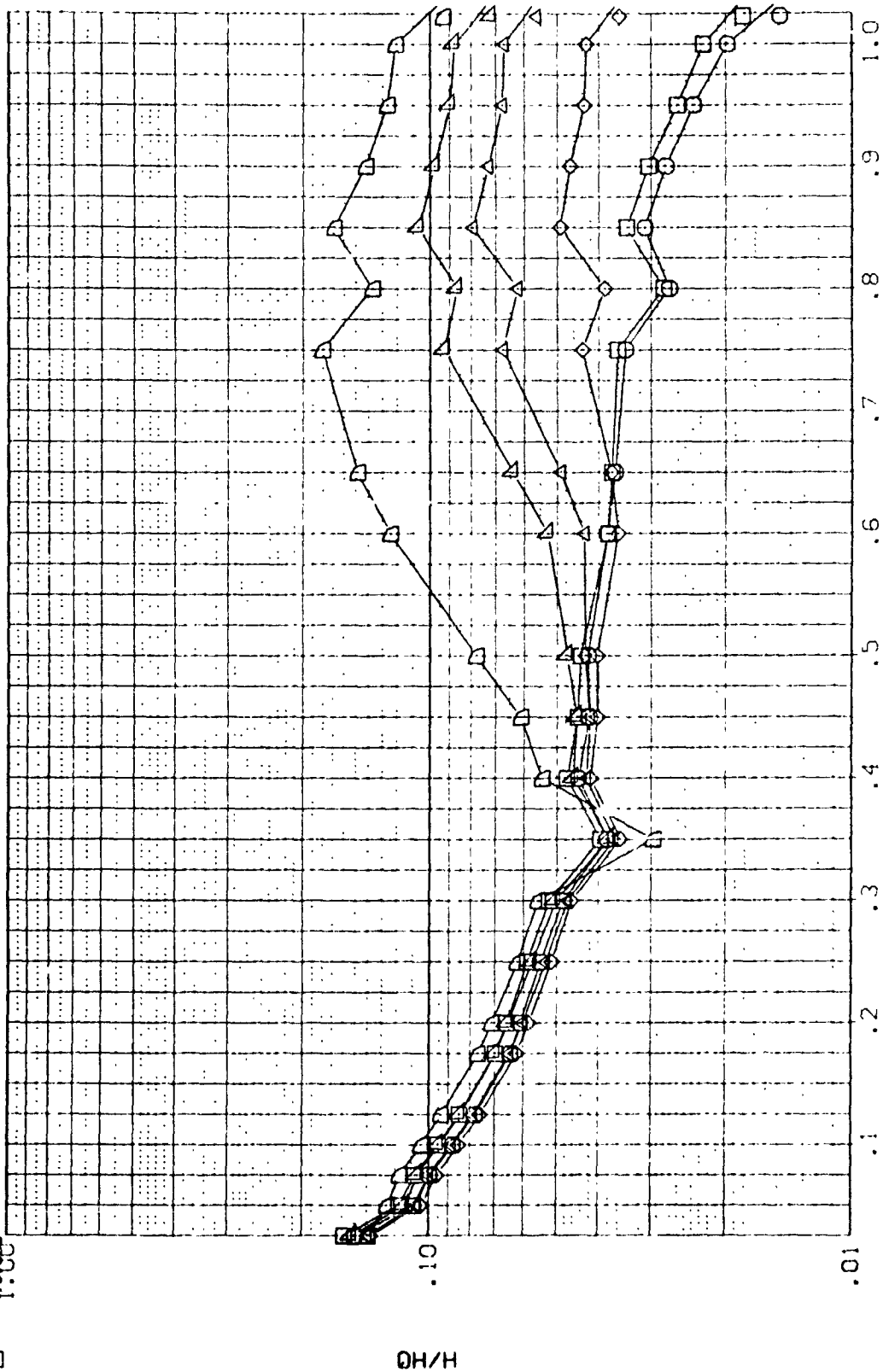


FIG 28

(RQLB05) CH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

SYMBOL RN/L
1.000
3.000
4.000
5.000
6.000
10.000

B.P. 117.000
HAM/HT .900

ALPHA
MACH

PARAMETRIC VALUES
35.000 BETA
8.000 .003

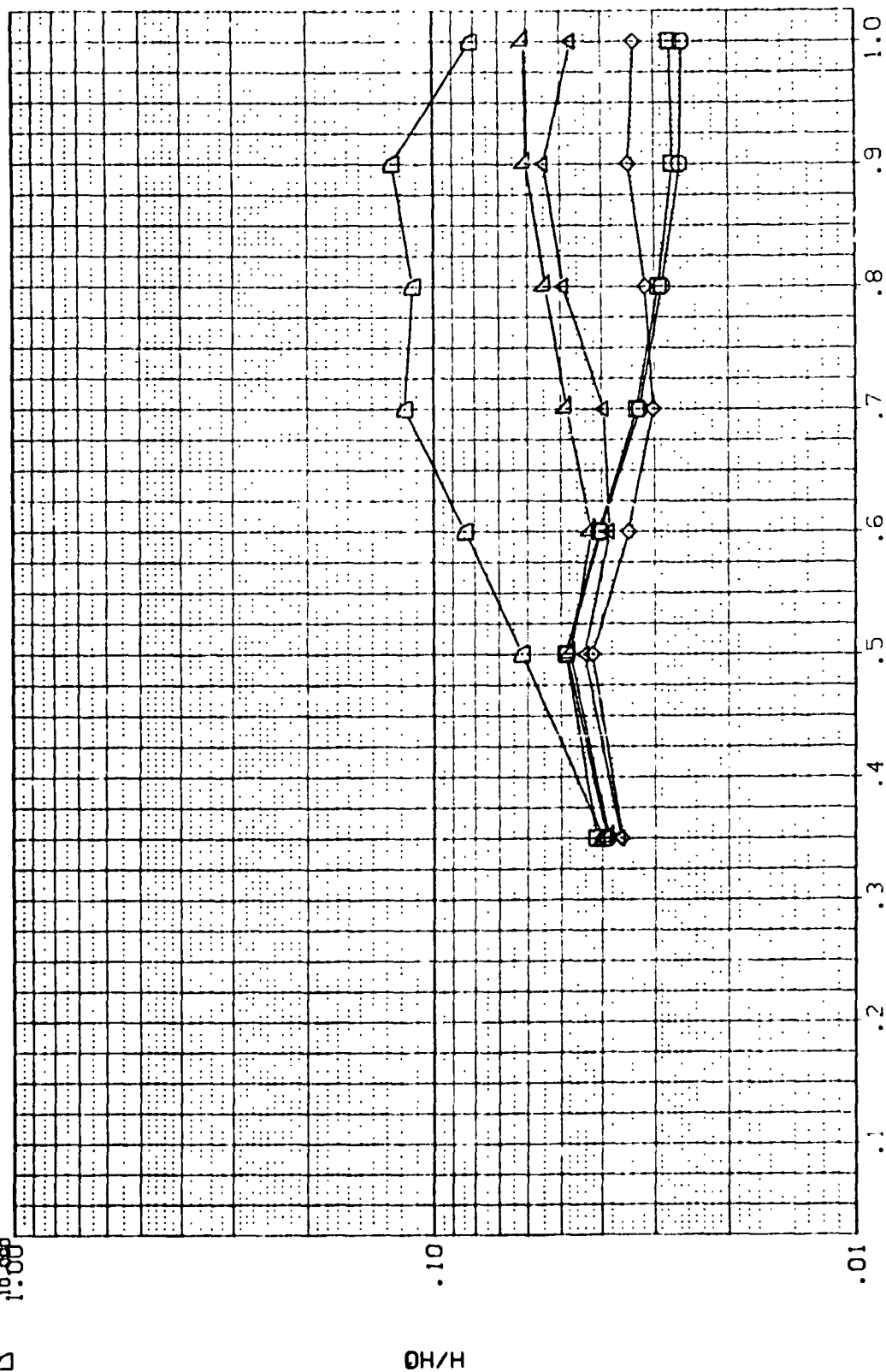


FIG 28 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE LOWER SURFACE AT 35 DEG. ANGLE OF ATTACK

(RQLW05) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL RN/L 3.000 4.000 5.000 6.000 8.000 10.000

ZY/B .400 .850

ALPHA MACH

PARAMETRIC VALUES 35.000 8.000 .000 BETA

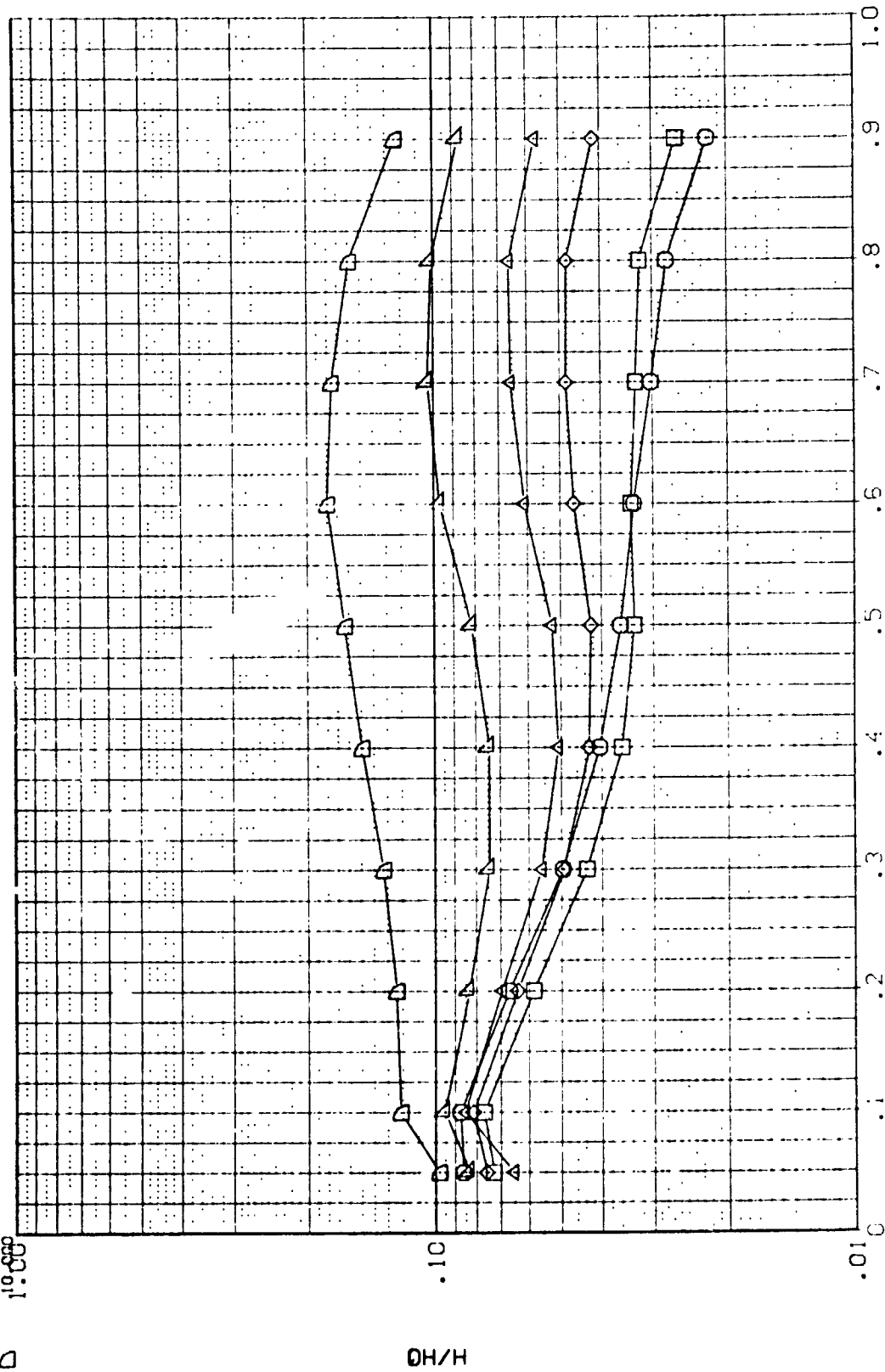


FIG 29 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD VARIATION OF RN/L ON WING LOWER SURFACE AT 35 DEG. ANGLE OF ATTACK

(RQLW05) OH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL RN/L
3.000
4.000
5.000
6.000
8.000
10.000

2V/8
.600
.850

ALPHA
MACH

PARAMETRIC VALUES
35.000 BETA
8.000 .000

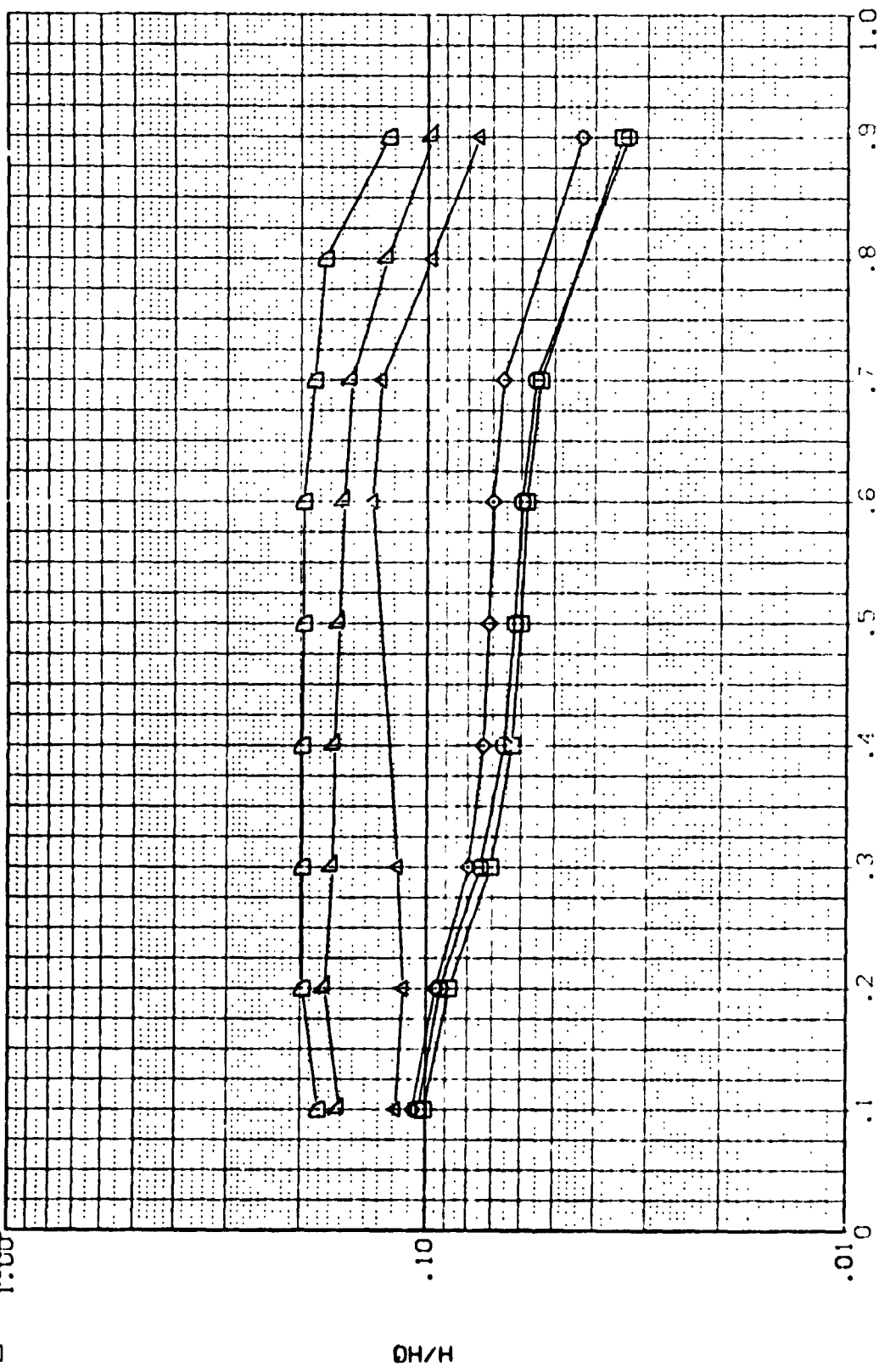


FIG 29 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
VARIATION OF RN/L ON WING LOWER SURFACE AT 35 DEG. ANGLE OF ATTACK

(RQLW05) DH14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL RN/L
 3.000
 4.000
 5.000
 6.000
 8.000
 10.000

2Y/B .800
 HAW/HT .850

ALPHA
 MACH

PARAMETRIC VALUES
 35.000 BETA
 8.000

.000

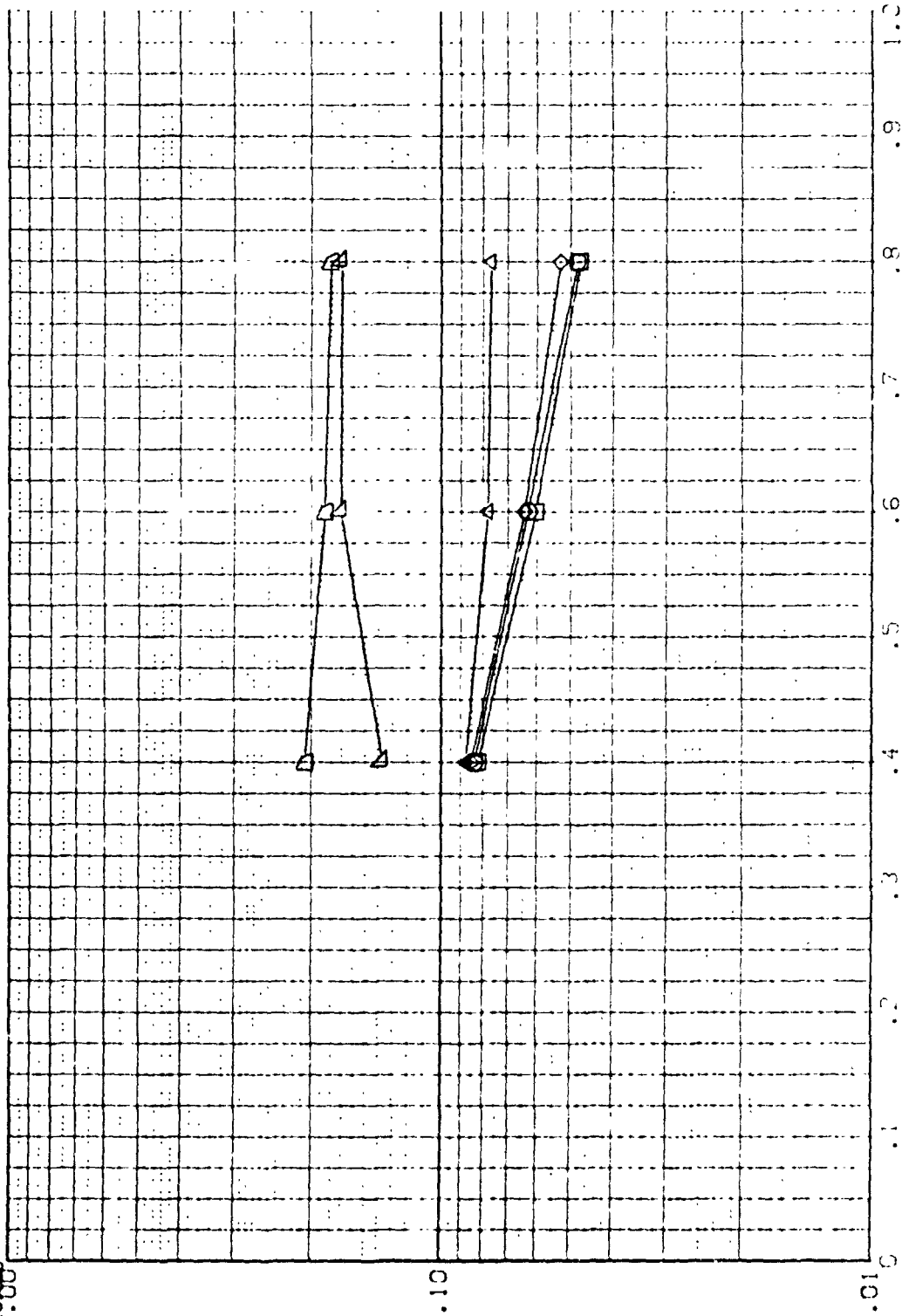


FIG 29 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
 VARIATION OF RN/L ON WING LOWER SURFACE AT 35 DEG. ANGLE OF ATTACK

(ROLL WOS) OH14 B22C7F5M4V7W:11 WING LOWER SURFACE

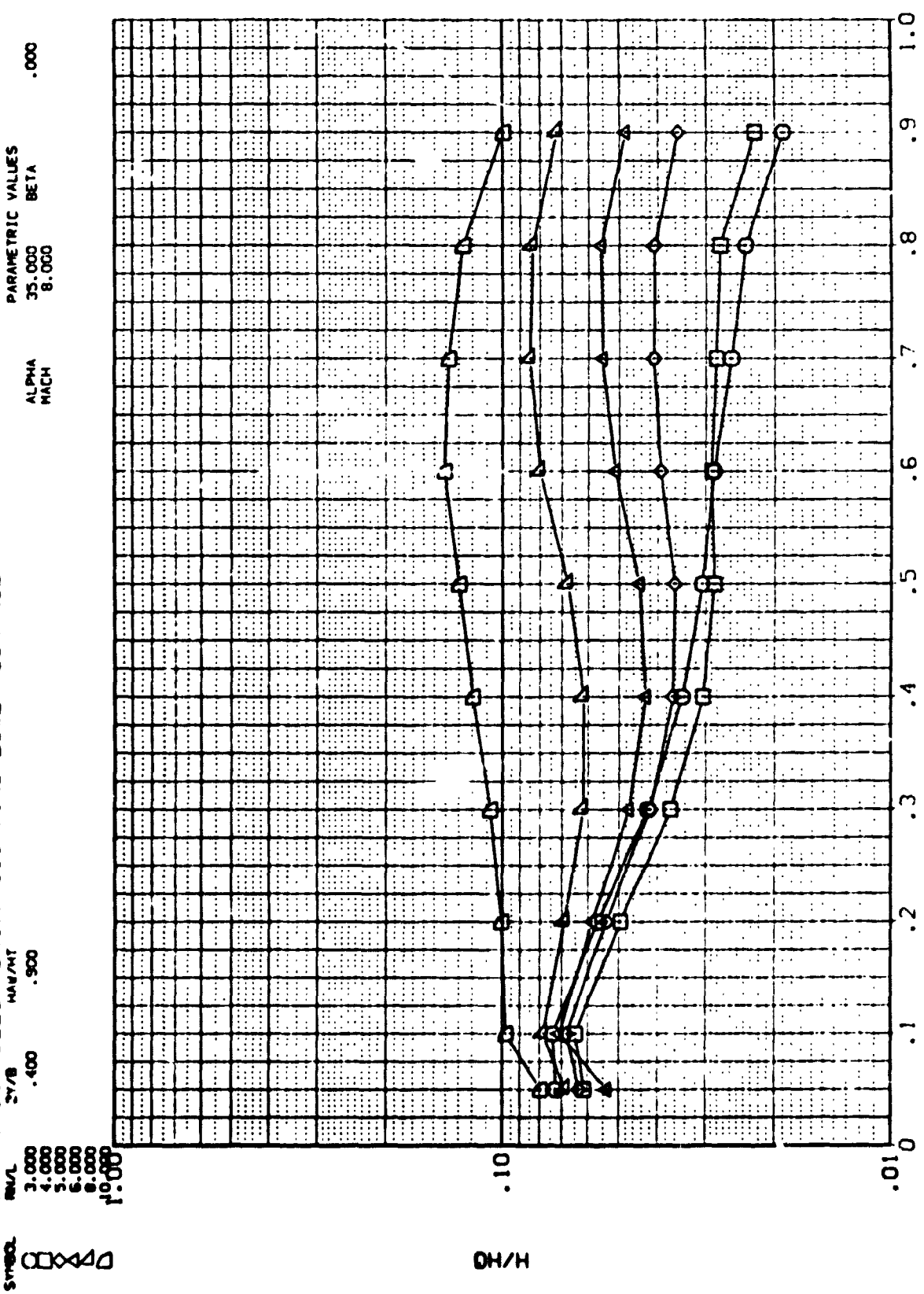


FIG 29

(R01W05) 0H14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL
 3.000
 4.000
 5.000
 6.000
 8.000
 10.000

2V/B .600
 MAB/MT .900

PARAMETRIC VALUES
 ALPHA MACH
 35.000
 8.000
 .000

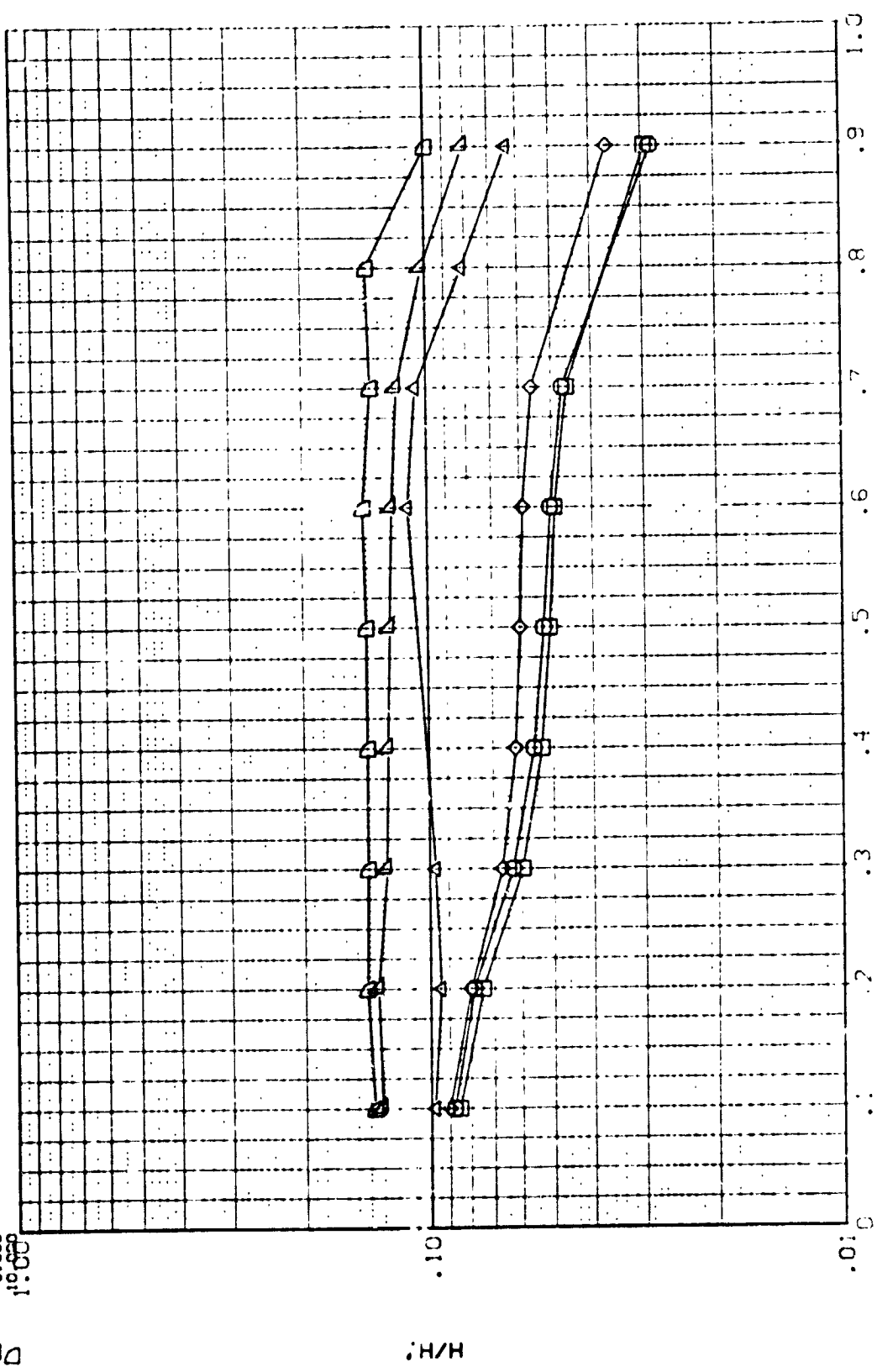


FIG 29 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
 VARIATION OF RN/L ON WING LOWER SURFACE AT 35 DEG. ANGLE OF ATTACK

(RQLW05) CH14 B22C7F5M4V7W111 WING LOWER SURFACE

PARAMETRIC VALUES
 32.000 BETA
 8.000
 ALPHA
 MACH

2V/B .800
 HAW/HT .900

SYMBOL
 RN/L
 3.000
 4.000
 5.000
 6.000
 8.000
 10.000

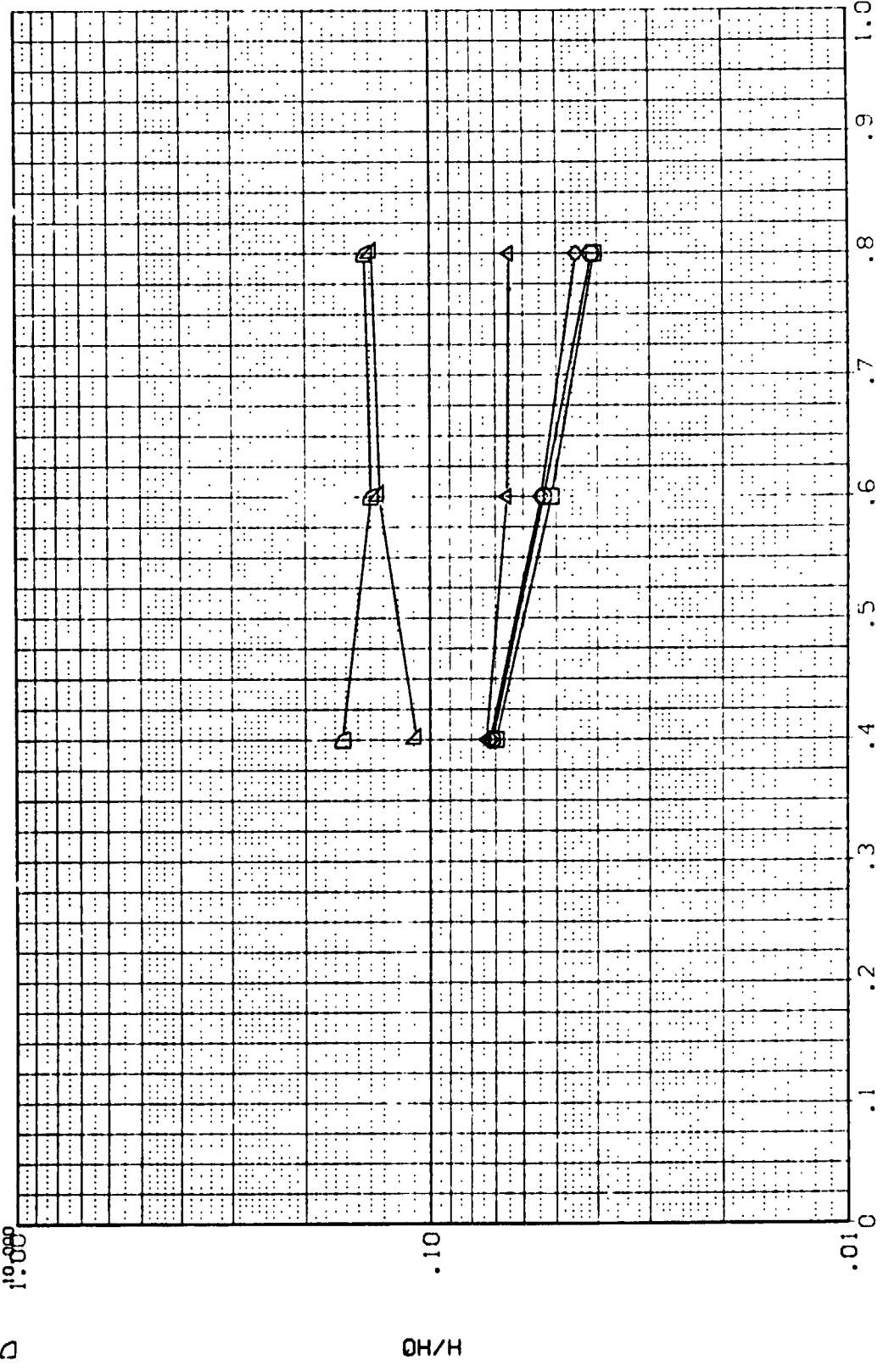


FIG 29 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
 VARIATION OF RN/L ON WING LOWER SURFACE AT 35 DEG. ANGLE OF ATTACK

(RQLW05) 0H14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL RN/L
 1.000
 3.000
 4.000
 5.000
 6.000
 10.000

2Y/B .400
 HAW/HT .850

ALPHA
 MACH

PARAMETRIC VALUES
 35.000 BETA
 8.000

.000

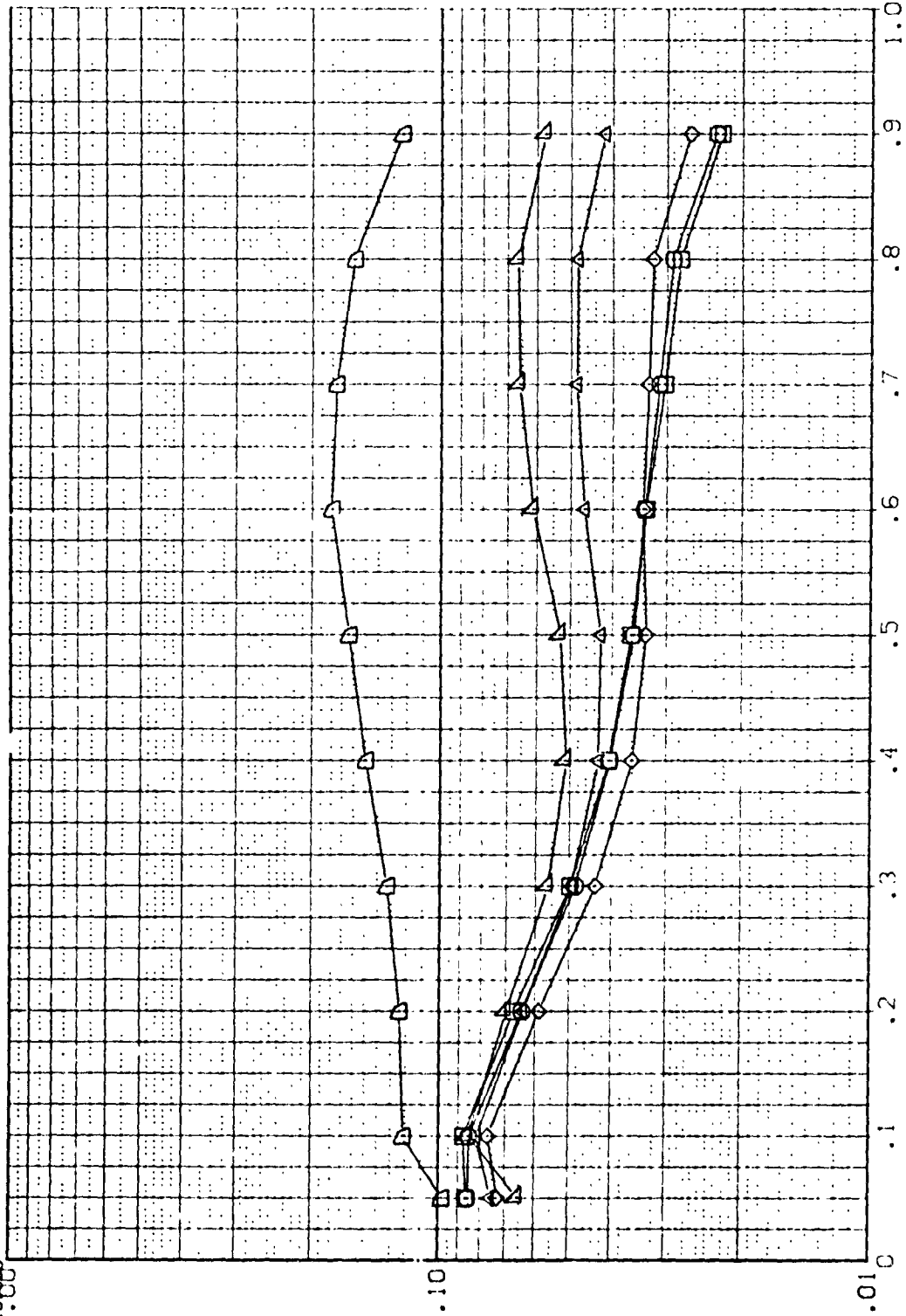


FIG 29 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
 VARIATION OF RN/L ON WING LOWER SURFACE AT 35 DEG. ANGLE OF ATTACK

0H14 B22C7F5M4V7W111 WING LOWER SURFACE

(RQLW05)
SYNTHOL
RN/L
1.000
3.000
4.000
5.000
6.000
10.000

2Y/B
.600
.850

ALPHA
MACH

PARAMETRIC VALUES
35.000 BETA
8.000 .000

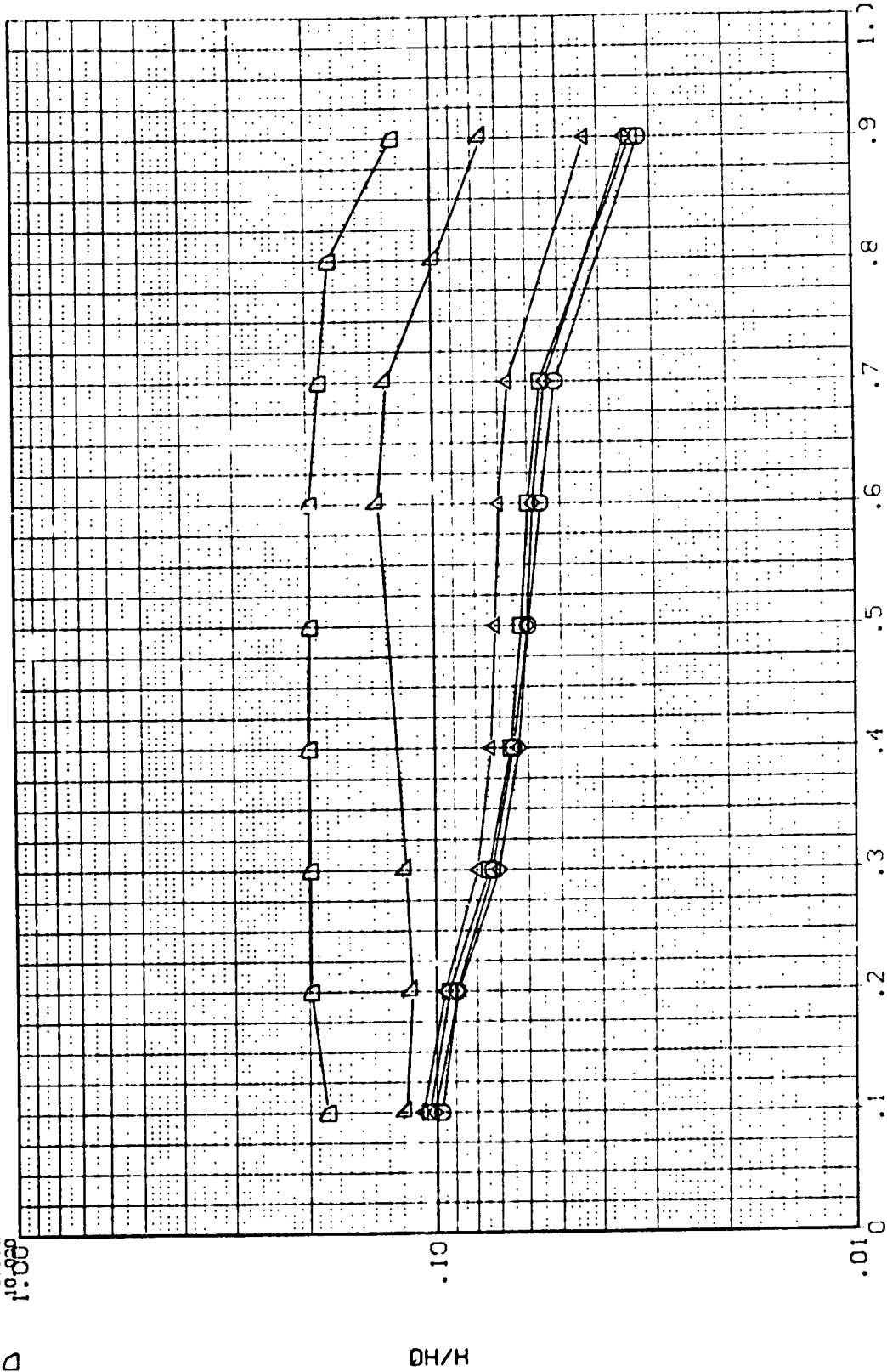


FIG 29 LONGITUDINAL WING STATION, X/C. FRACTION OF LOCAL WING CHORD
VARIATION OF RN/L ON WING LOWER SURFACE AT 35 DEG. ANGLE OF ATTACK

(RQLW05) OH14 822C7F5M4V7W111 WING LOWER SURFACE

SYMBOL RN/L 1.000 3.000 4.000 5.000 6.000 10.000

2Y/B .800 HA/W/HT .850

PARAMETRIC VALUES ALPHA MACH 35.000 8.000 BETA .000

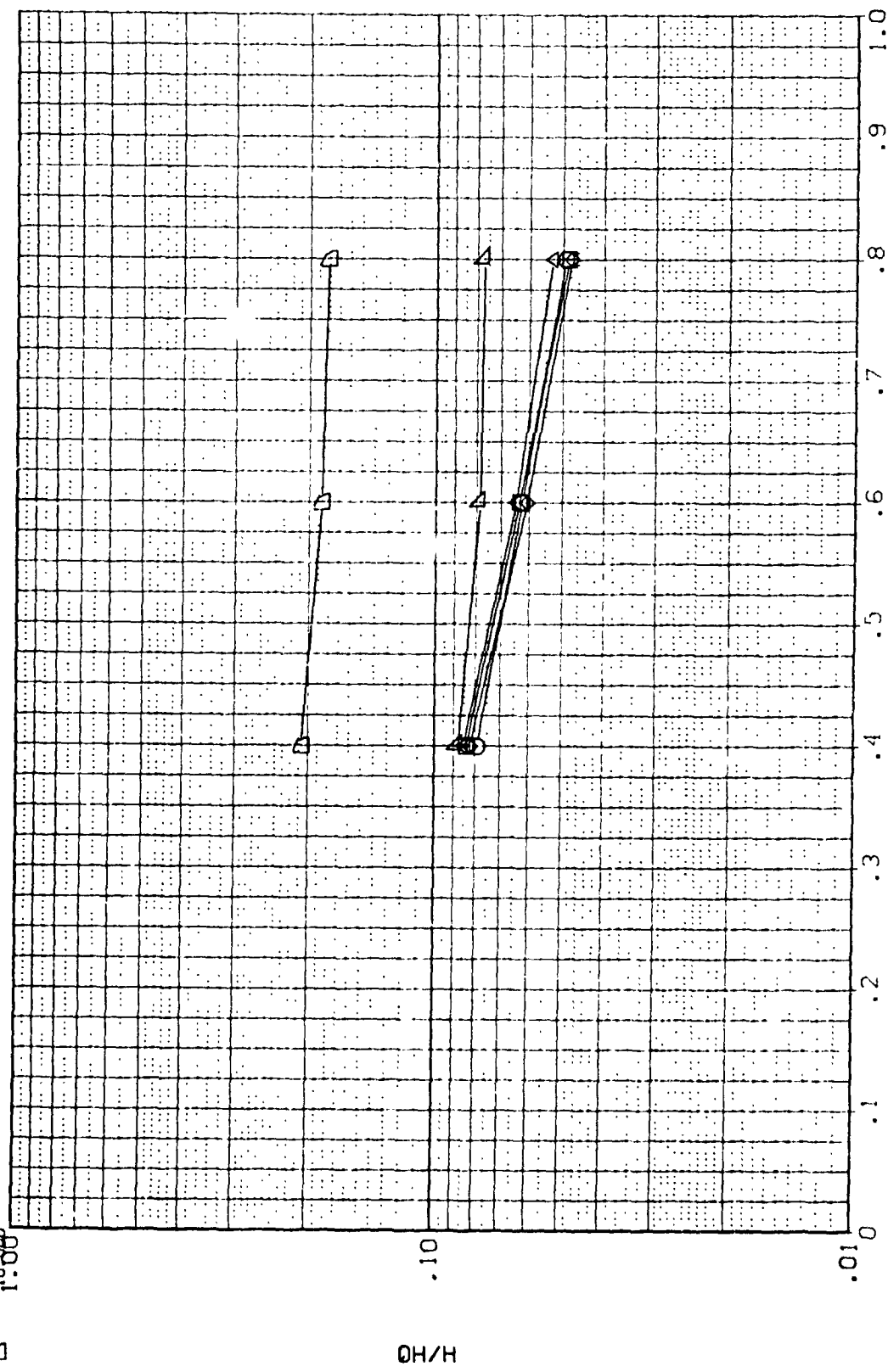


FIG 29 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD VARIATION OF RN/L ON WING LOWER SURFACE AT 35 DEG. ANGLE OF ATTACK

(RQLW05) 0H14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL
RN/L
1.000
3.000
4.000
5.000
6.000
10.000

2V/B
0.400
0.900

ALPHA
MACH

PARAMETRIC VALUES
35.000 BETA
8.000

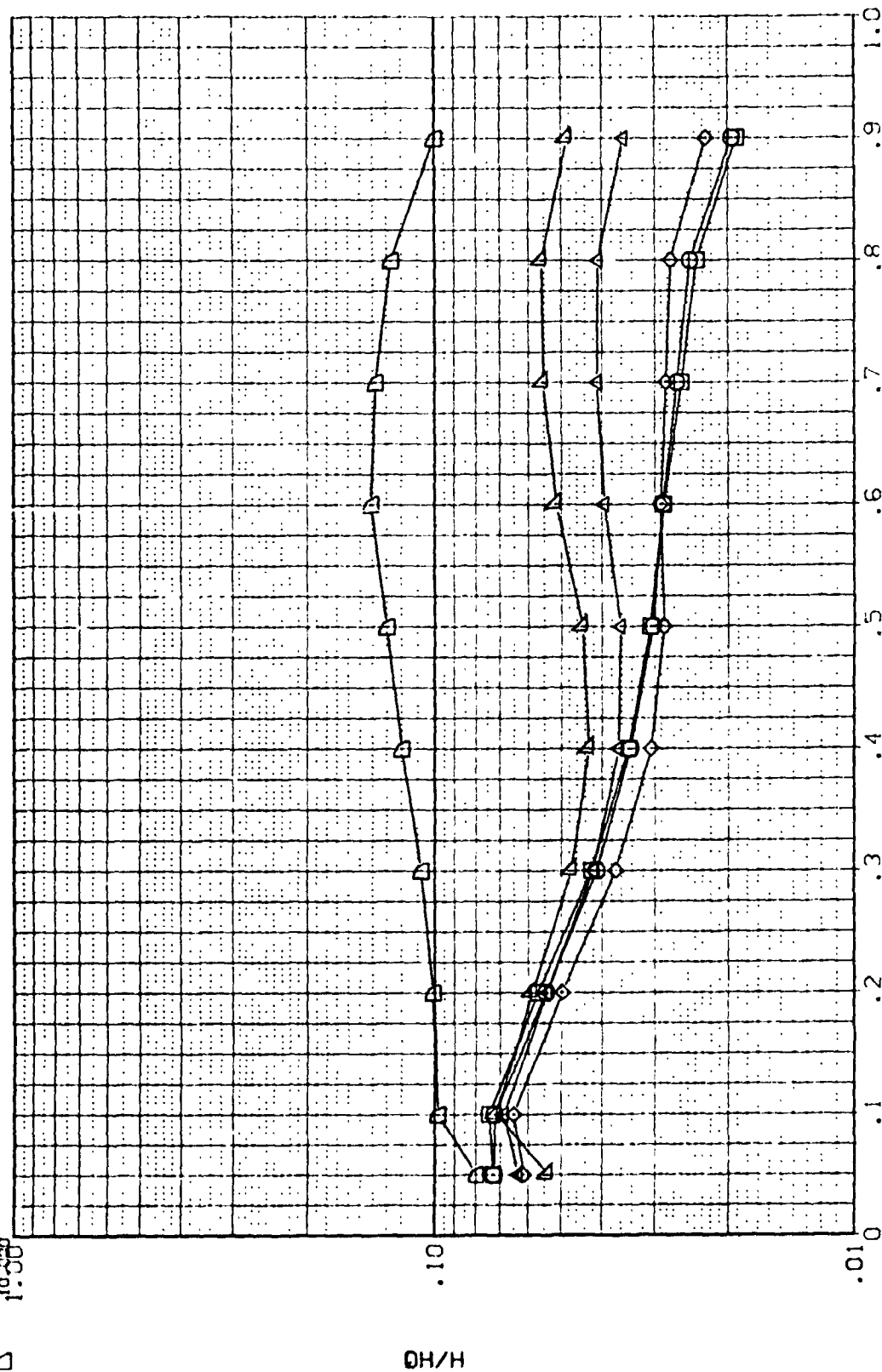


FIG 29 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
VARIATION OF RN/L ON WING LOWER SURFACE AT 35 DEG. ANGLE OF ATTACK

(RQLW05) 0H14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL
 RN/L
 1.000
 3.000
 4.000
 5.000
 6.000
 10.000

2Y/B
 .600
 .900

ALPHA
 MACH

PARAMETRIC VALUES
 35.000 BETA
 8.000

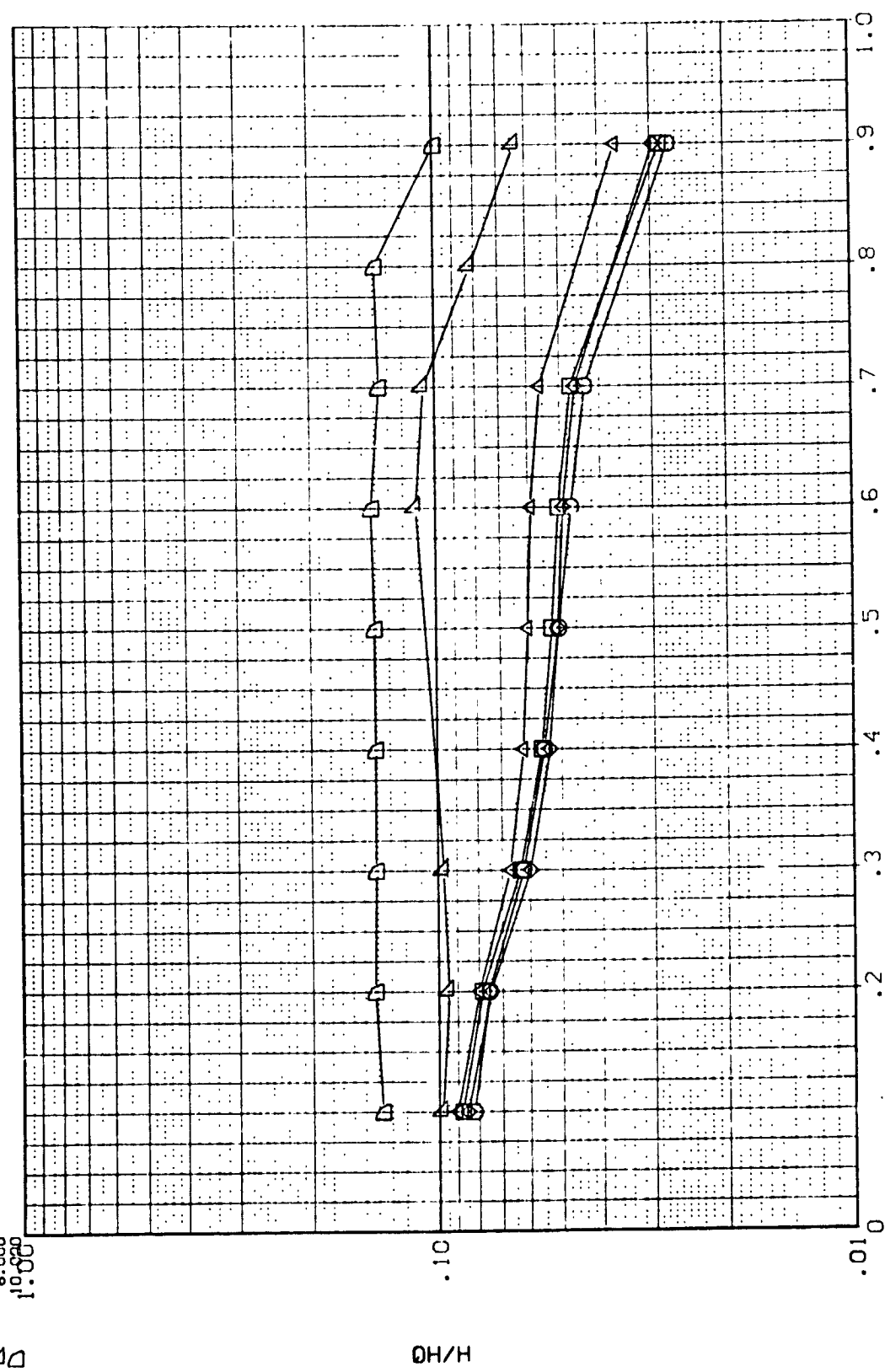


FIG 29 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 VARIATION OF RN/L ON WING LOWER SURFACE AT 35 DEG. ANGLE OF ATTACK

(RQLW05) 0H14 B22C7F5M4V7W111 WING LOWER SURFACE

SYMBOL
 RN/L 1.000
 3.000
 4.000
 5.000
 6.000
 10.000

ZY/B .800
 HAW/HT .900

PARAMETRIC VALUES
 ALPHA MACH 35.000 8.000 .000

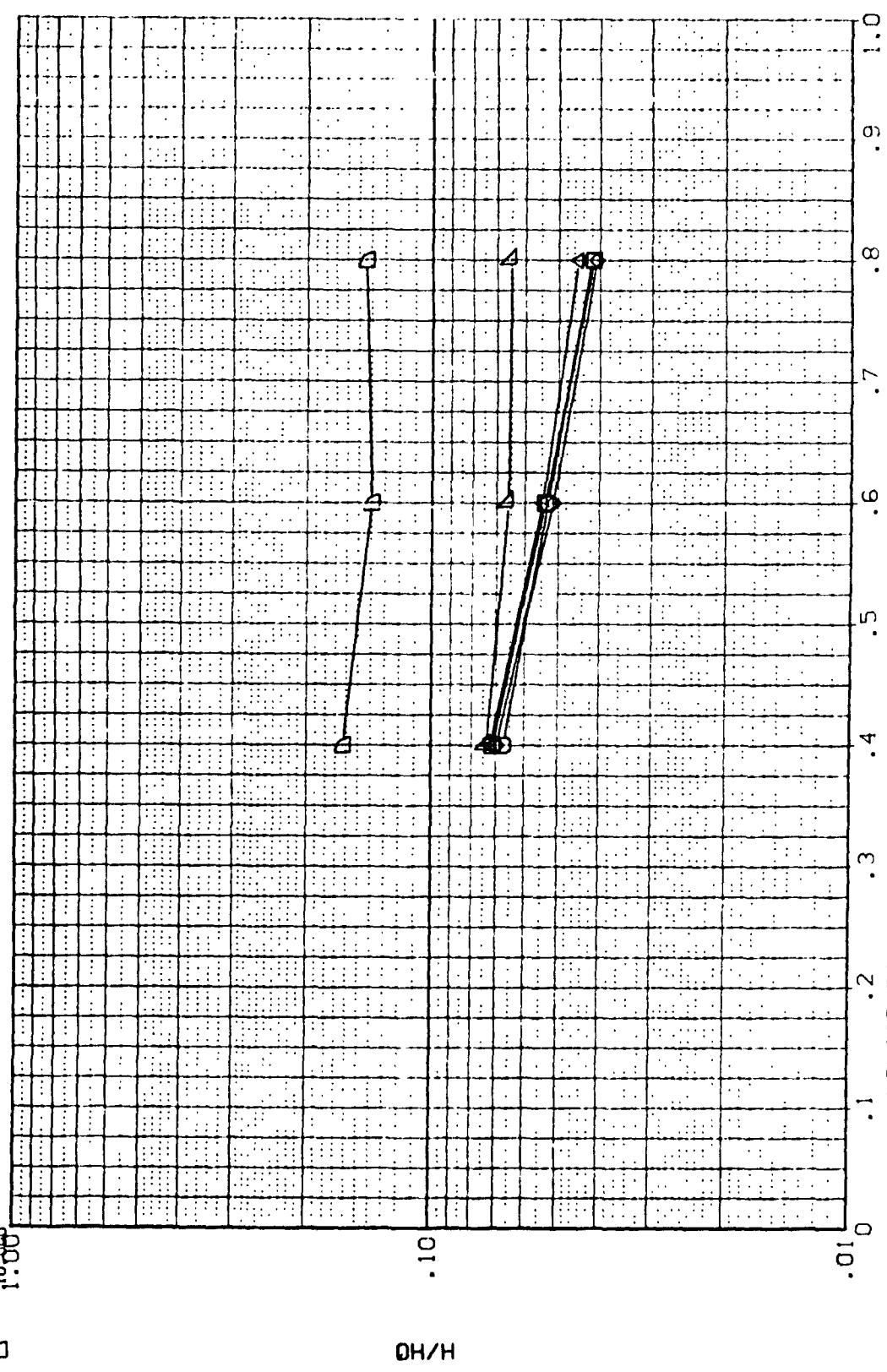


FIG 29 LONGITUDINAL WING STATION, X/C, FRACTION OF LOCAL WING CHORD
 VARIATION OF RN/L ON WING LOWER SURFACE AT 35 DEG. ANGLE OF ATTACK

(R0LS05) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SV-BOL RN/L
3.000
4.000
5.000
6.000
8.000
19.000

V.P. 375.000
HAW/HT .850

ALPHA MACH
PARAMETRIC VALUES
35.000 BETA
8.000 .000

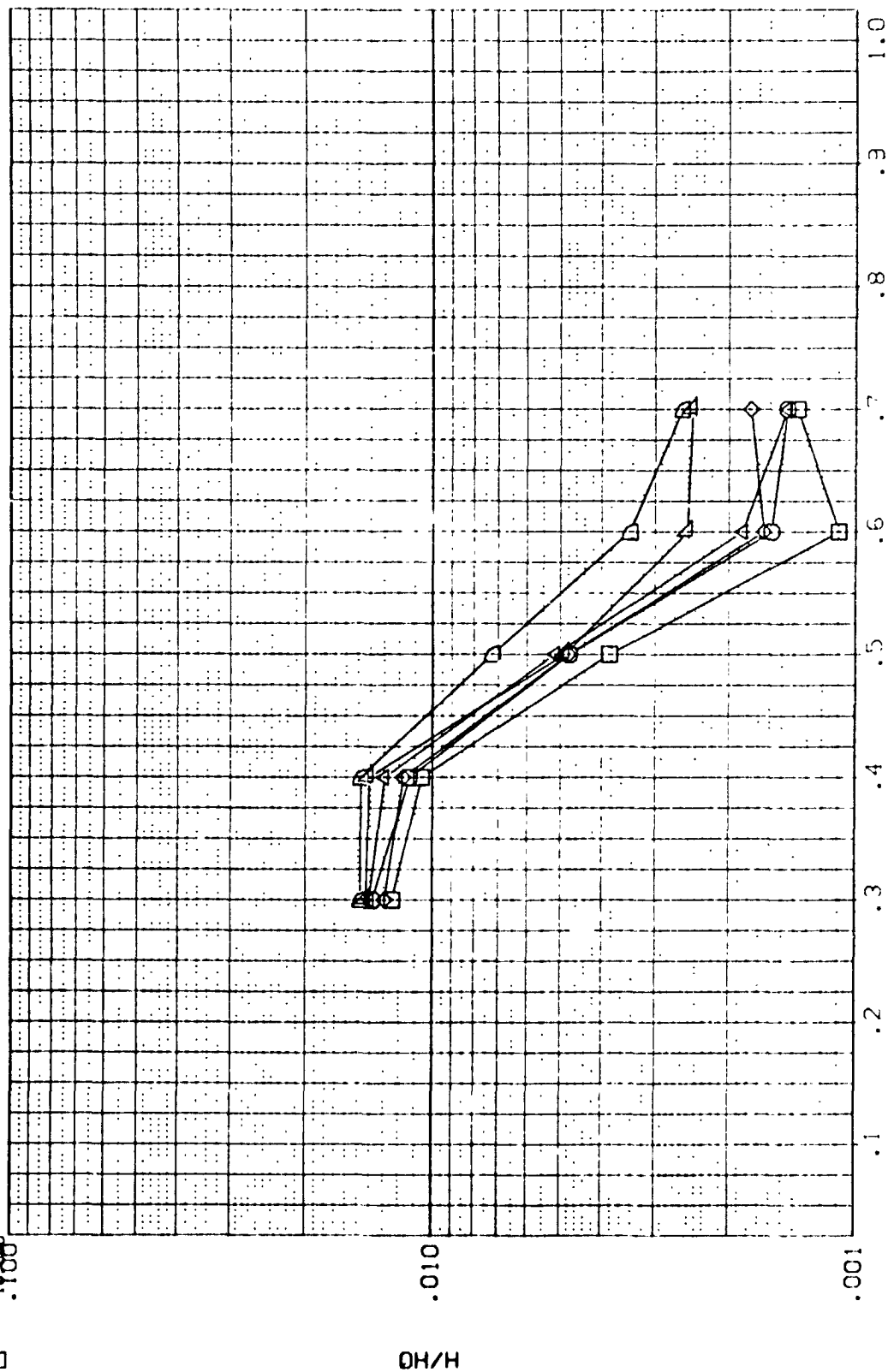


FIG 30 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 35 DEG. ANGLE OF ATTACK

(RQLS05) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 35.000 BETA
 8.000
 .000

V.P.
 400.000
 HAW/HT
 .850

SYNTH
 RN/L
 3.000
 4.000
 5.000
 6.000
 8.000
 10.000

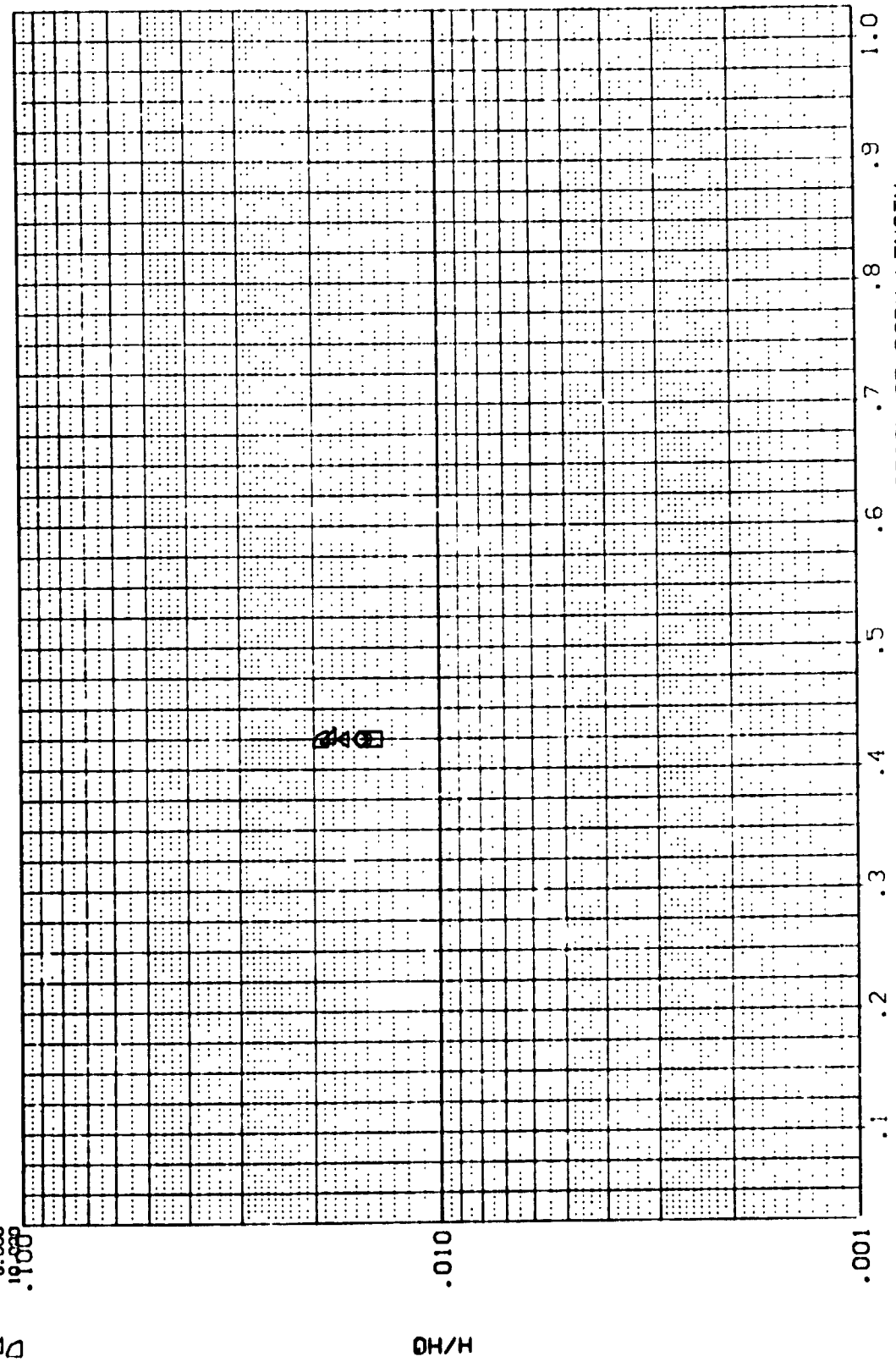


FIG 30 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 35 DEG. ANGLE OF ATTACK

(R0LS05) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL
RN/L
3.000
4.000
5.000
6.000
8.000
10.000

W.P.
425.000
HAW/HT
.850

ALPHA
MACH

PARAMETRIC VALUES
35.000 BETA
8.000

.000

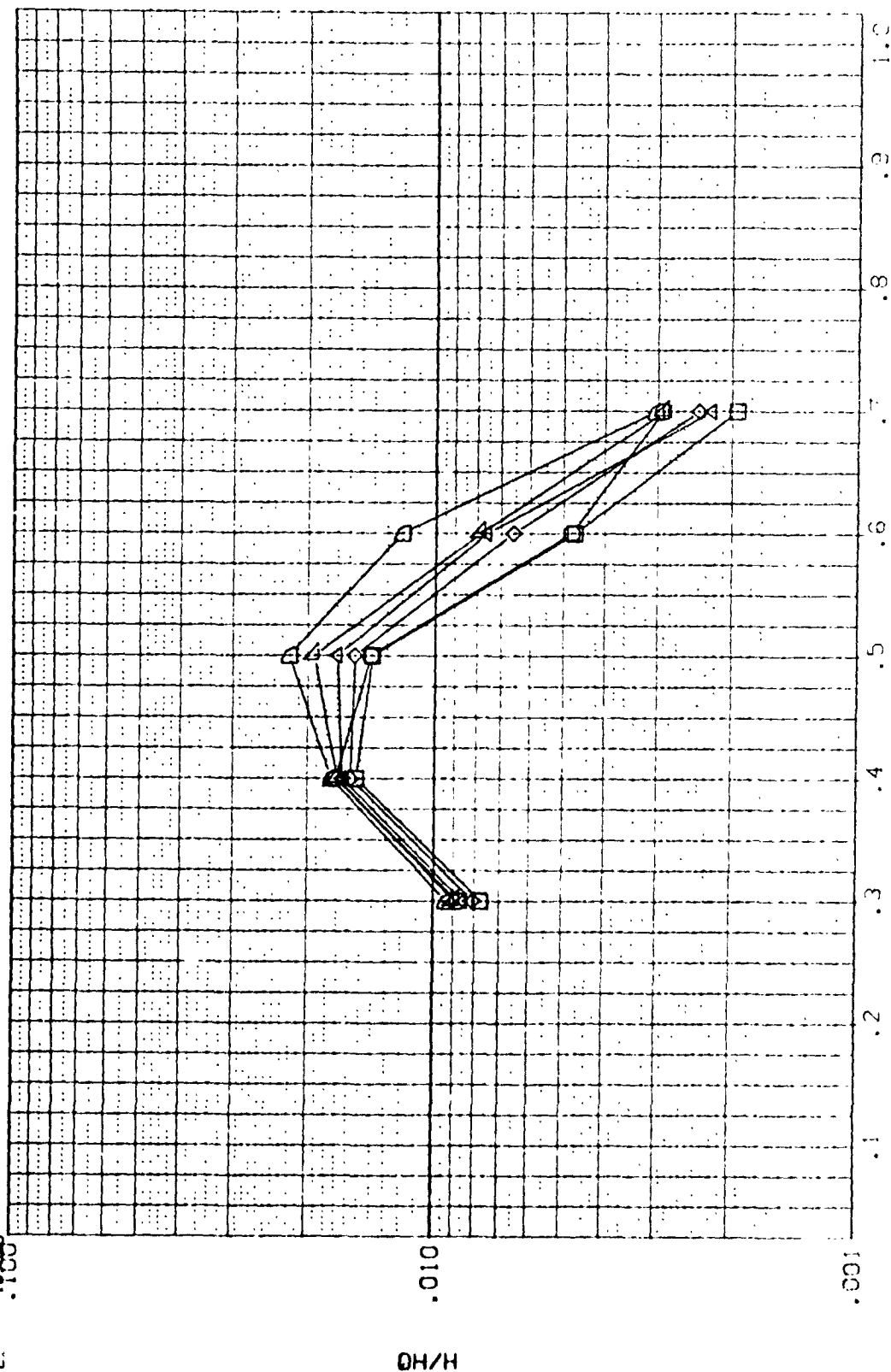


FIG 30 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 35 DEG. ANGLE OF ATTACK

(RQLS05) OH14 B22C7FSM4V7W111 FUSELAGE UPPER SURFACE

SYMBOL RN/L V.P. NAV/MT
 3.000 465.000
 4.000
 5.000
 6.000
 8.000
 10.000

PARAMETRIC VALUES
 ALPHA 35.000 BETA .000
 MACH 8.000

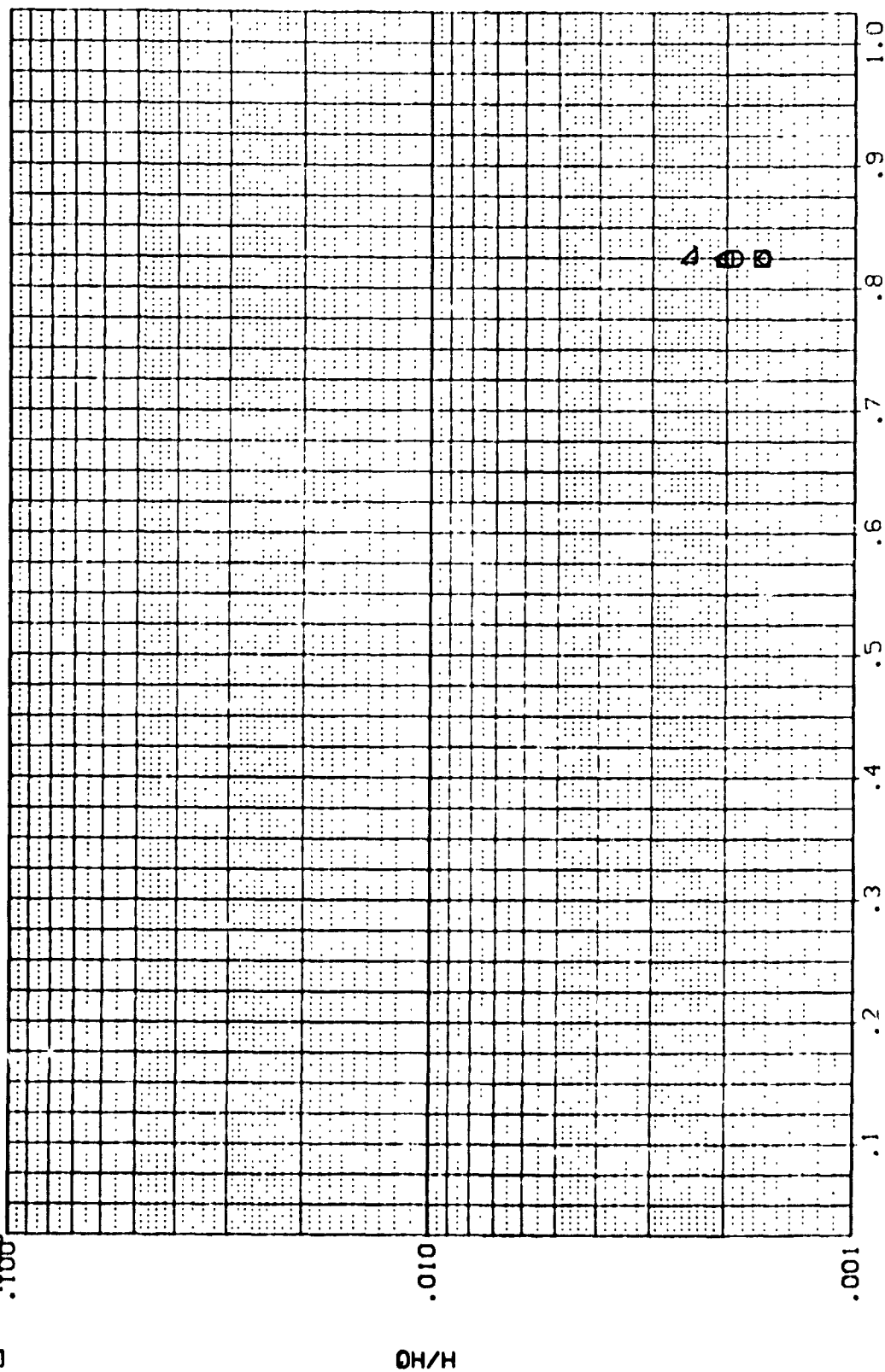


FIG 30 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 35 DEG. ANGLE OF ATTACK

(R0LS05) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 ALPHA 35.000
 MACH 8.000
 BETA .000

W.P. 501.000
 MAX/H/T .850

SYMBOL RN/L
 3.000
 4.000
 5.000
 6.000
 8.000
 10.000

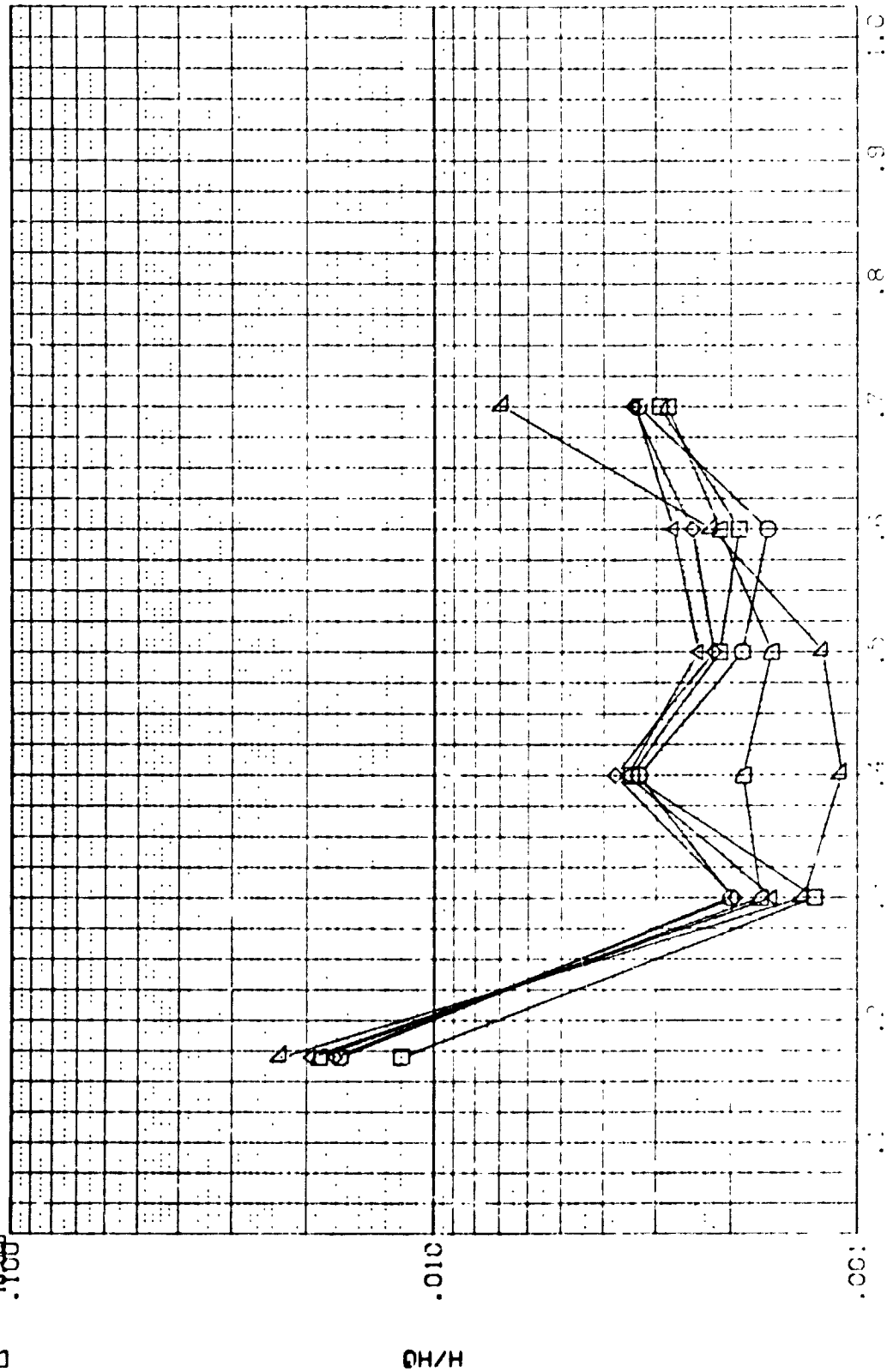


FIG 30 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 35 DEG. ANGLE OF ATTACK

(R0LS05) OH14 822C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL RN/L V.P. MAX/MIN .900
 3.000
 4.000
 5.000
 6.000
 8.000
 10.000

PARAMETRIC VALUES
 ALPHA 35.000 BETA 8.000
 MACH .000

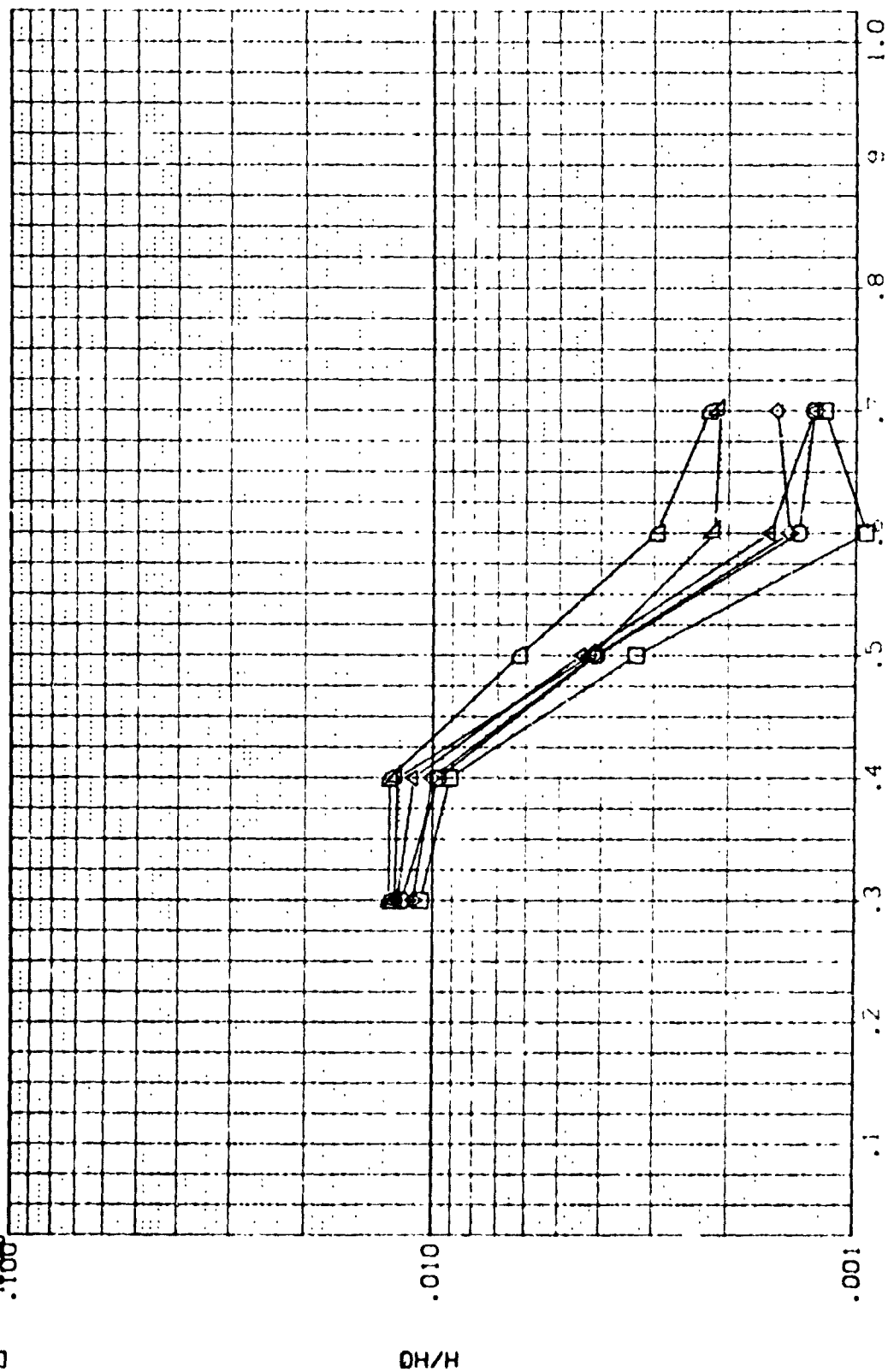


FIG 30 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF V_n/V ON FUSELAGE UPPER SURFACE AT 35 DEG. ANGLE OF ATTACK

(R0LS05) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL: $\square \square \square \square \square$
 RN/L 3.000
 4.000
 5.000
 6.000
 8.000
 10.000
 W.P. 400.000
 HAW/HT .900

ALPHA MACH
 35.000
 8.000
 BETA .000

PARAMETRIC VALUES

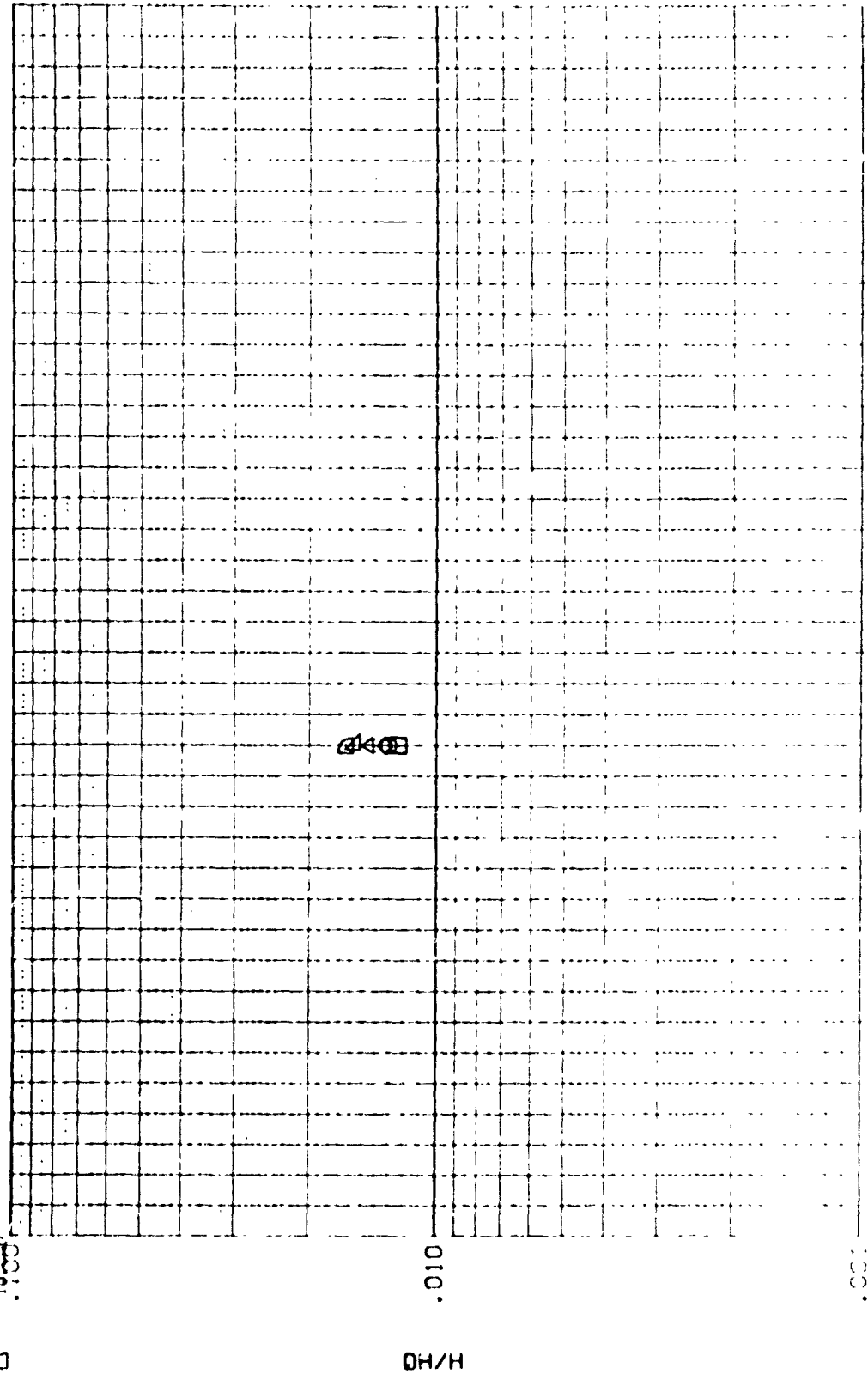


FIG 30 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 35 DEG. ANGLE OF ATTACK

(RQLS05) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
35.000 BETA
8.000

ALPHA
MACH

V.P. 425.000
HAW/HT .900

3.000
4.000
5.000
6.000
8.000
10.000
19.000

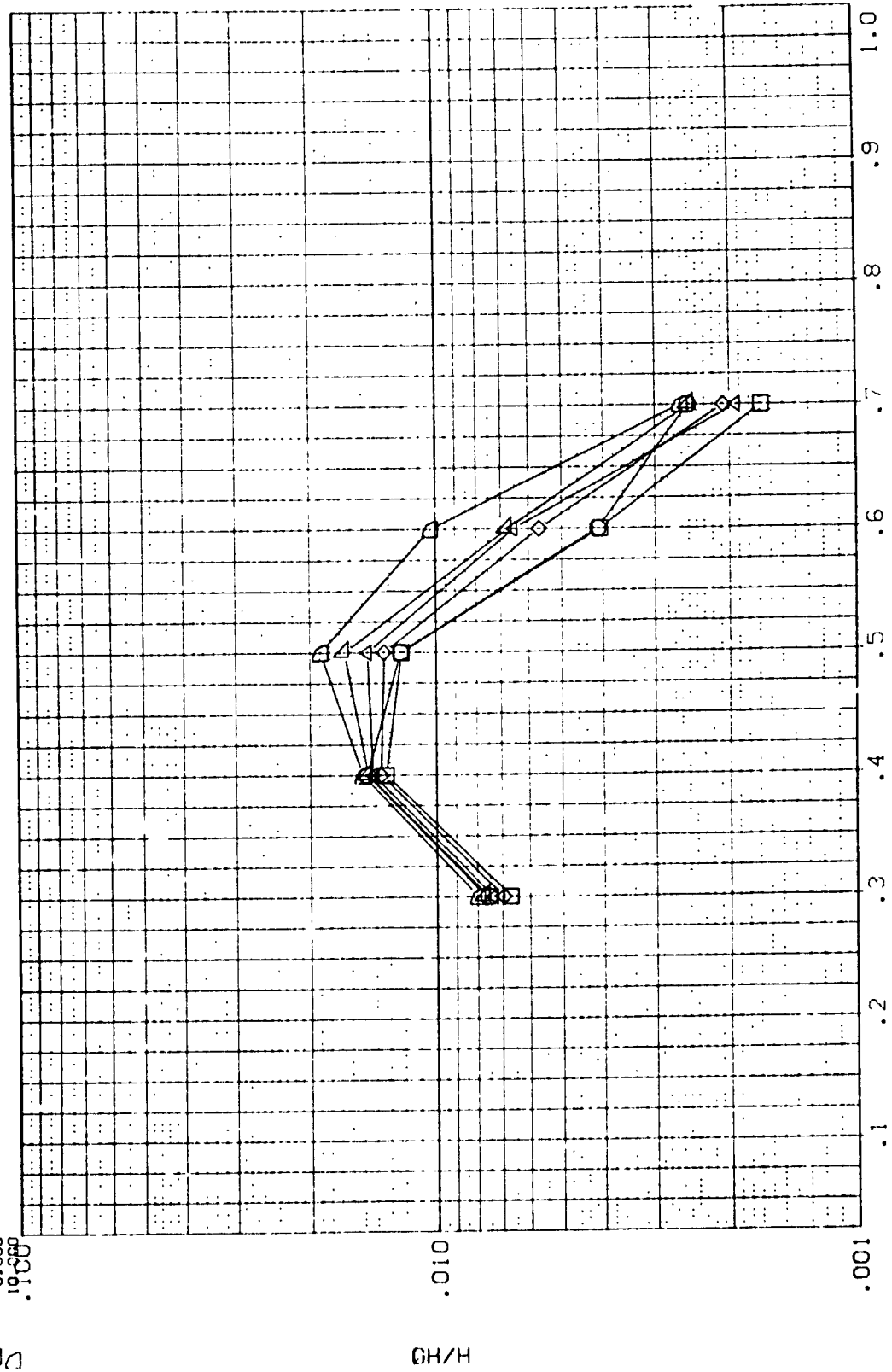


FIG 30 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 35 DEG. ANGLE OF ATTACK

(RQLS05) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL RN/L V.P. HAW/HIT

465.000

.900

ALPHA
MACH

PARAMETRIC VALUES

35.000 BETA
8.000

.000

3.000
4.000
5.000
6.000
8.000
10.000

000040

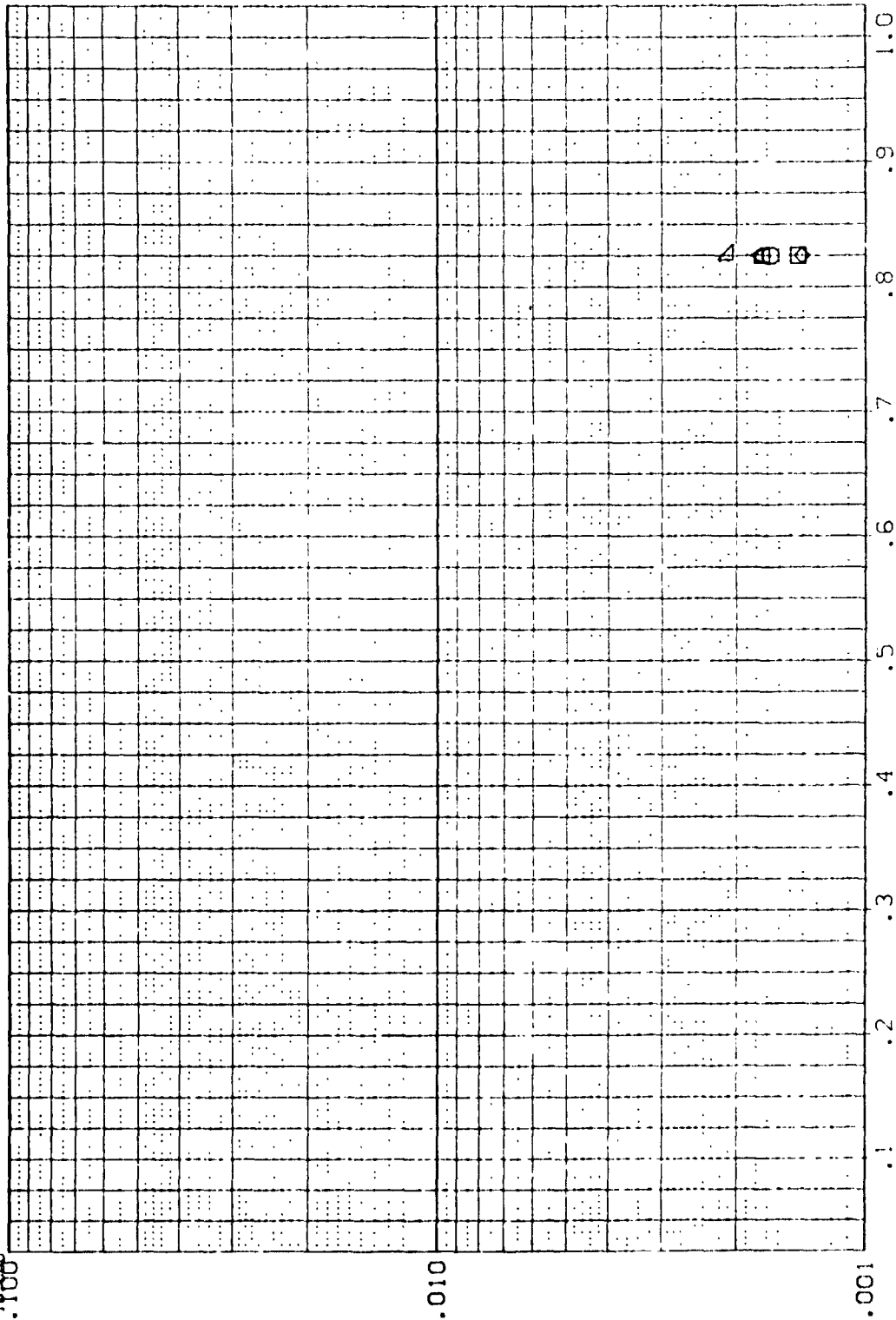


FIG 30 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 35 DEG. ANGLE OF ATTACK

(RQLS05) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 35.00C BETA
 8.000

ALPHA
 MACH

SYMBOL
 RN/L
 3.000
 4.000
 5.000
 6.000
 8.000
 10.000

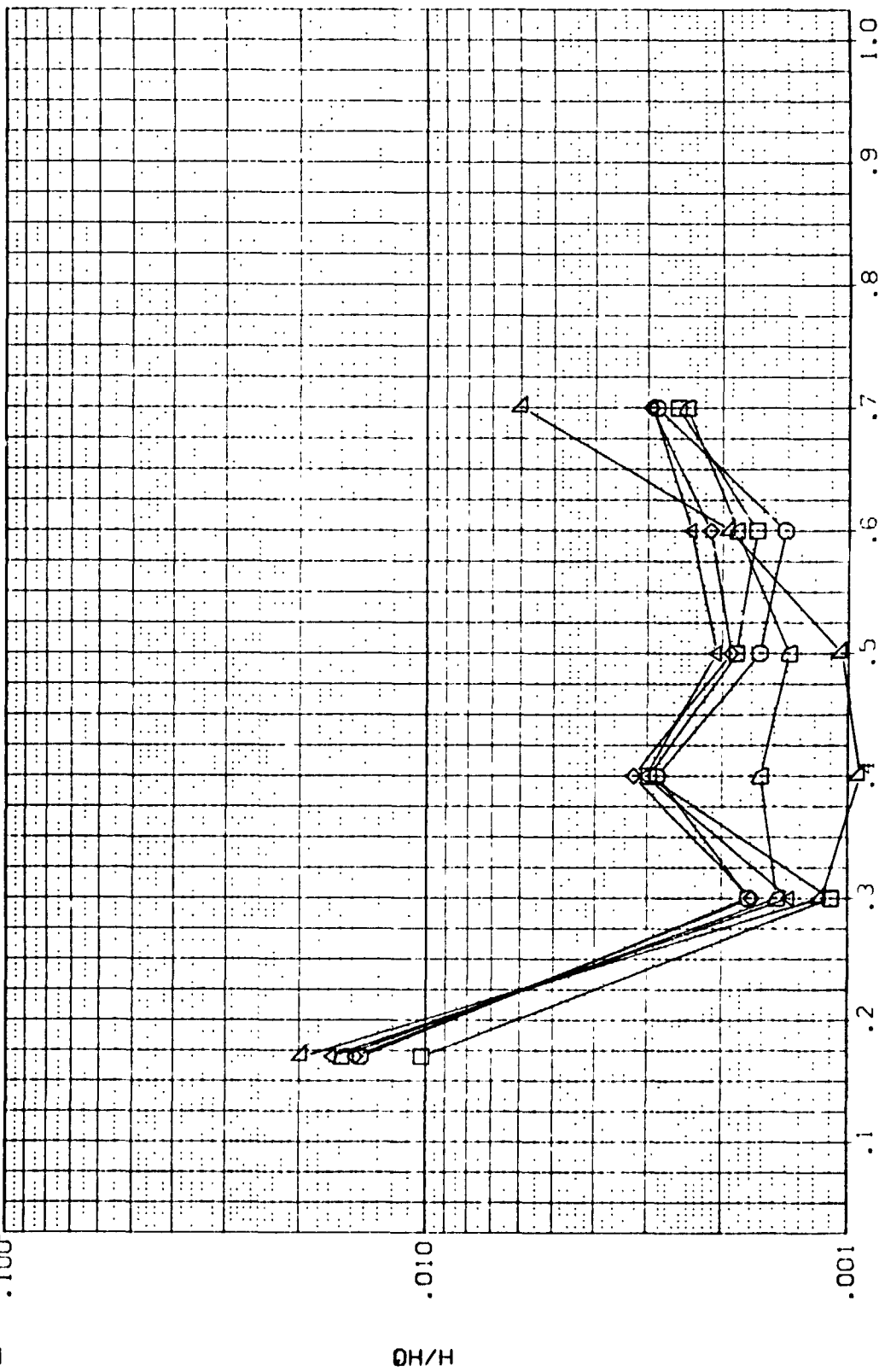


FIG 30 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 35 DEG. ANGLE OF ATTACK

(RQLS05) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL
 RN/L
 1.000
 3.000
 4.000
 5.000
 6.000
 12.000

V.P.
 375.000
 HAV/H
 .850

ALPHA
 MACH

PARAMETRIC VALUES
 35.000
 BETA
 8.000
 .000

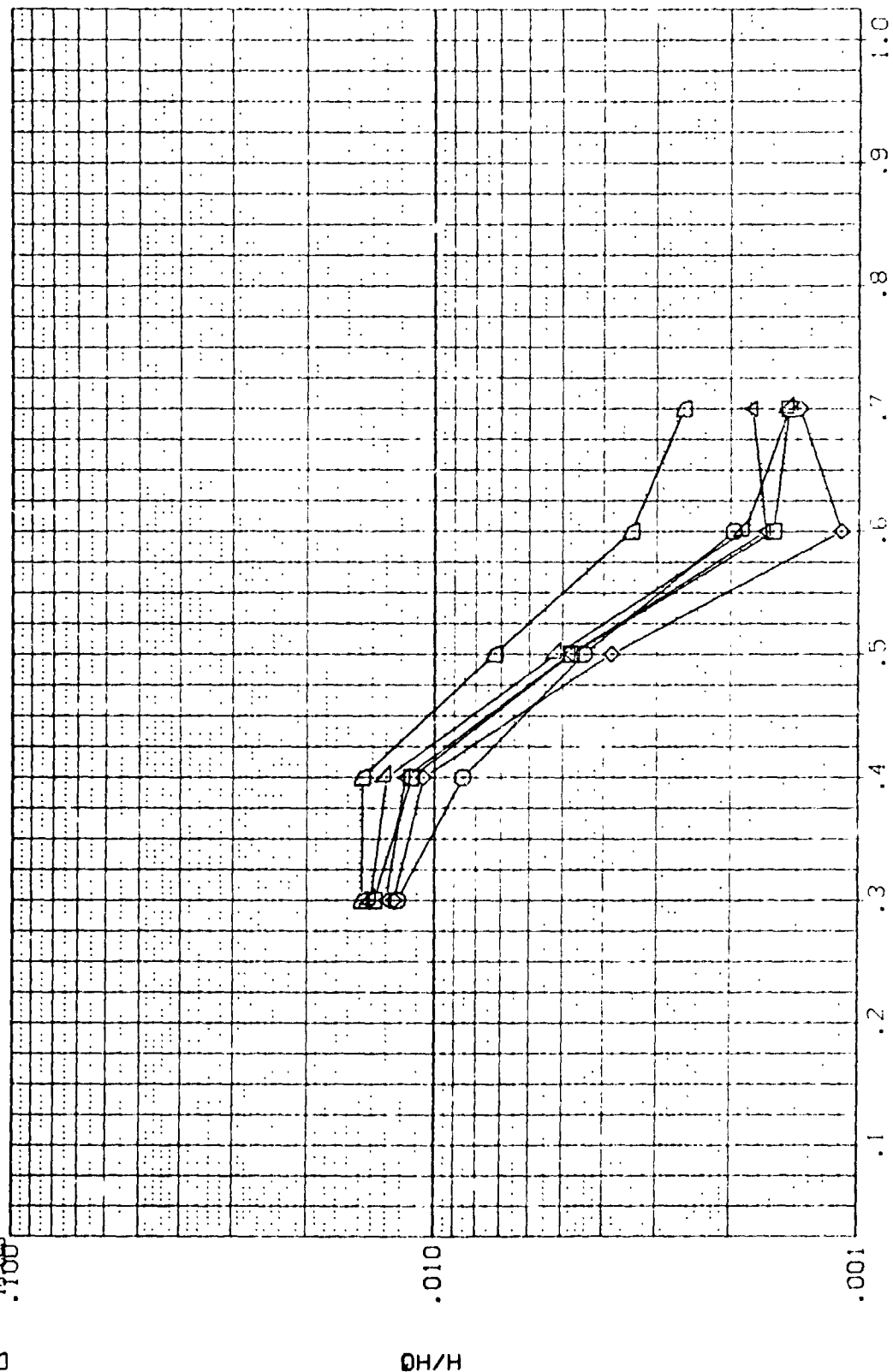


FIG 30 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 35 DEG. ANGLE OF ATTACK

(R0LS05) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
 ALPHA MACH 35.000 8.000
 BETA .003

W.P. 400.000
 HAW/HIT .850

SYMBOL RN/L 1.000 3.000 4.000 5.000 6.000 10.000
 0000440

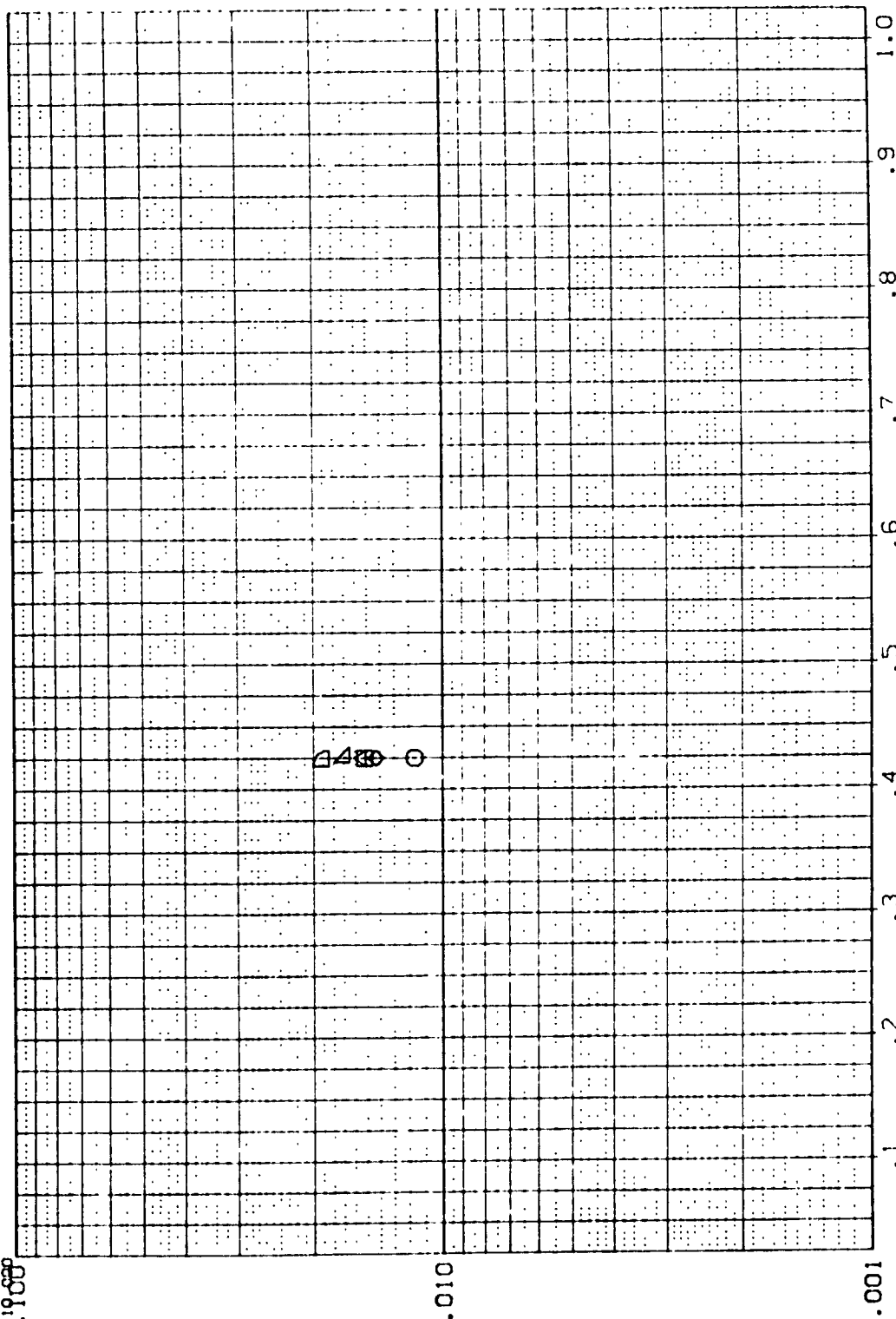


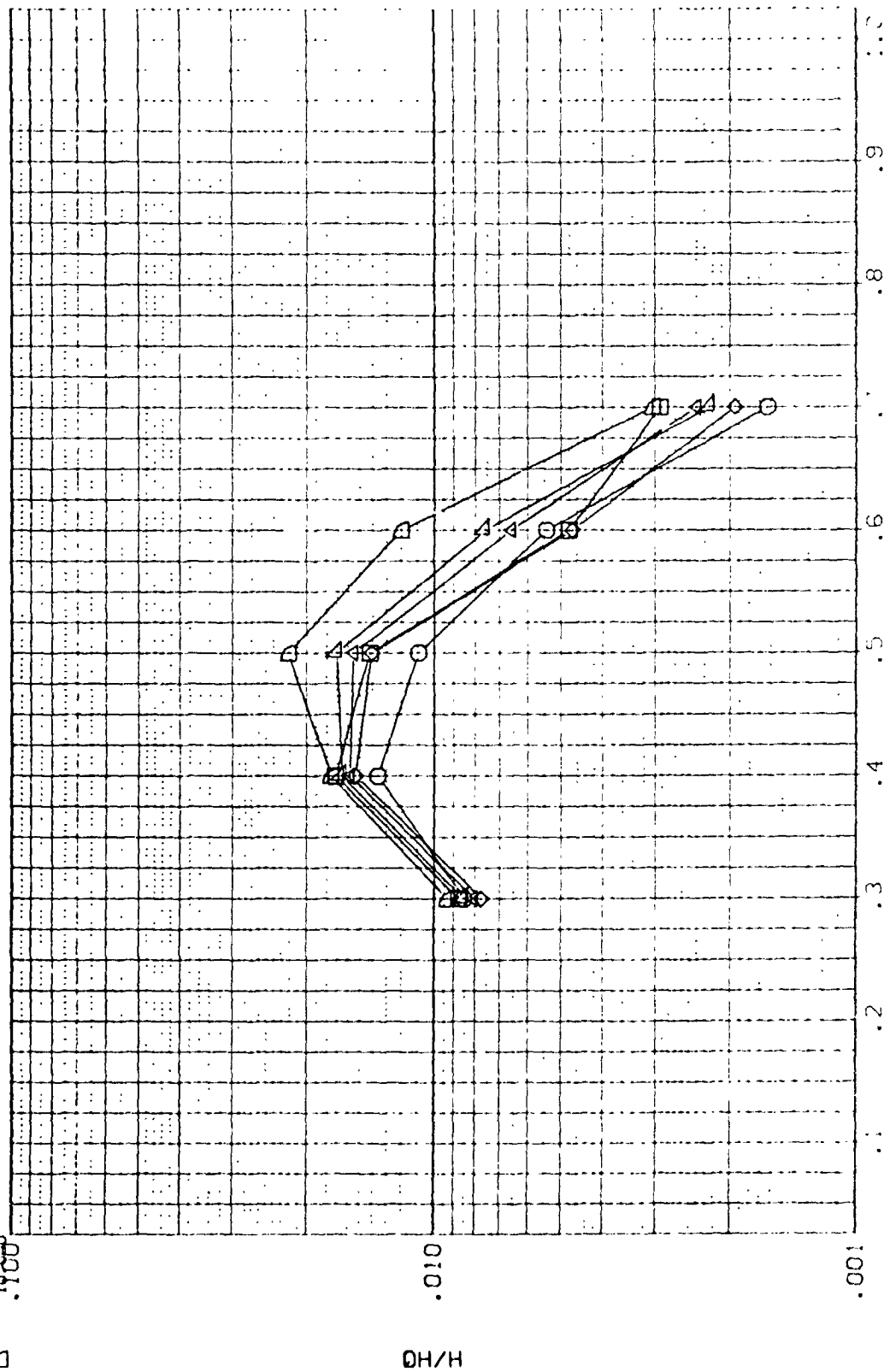
FIG 30 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 35 DEG. ANGLE OF ATTACK

(RQLS05) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL
RN/L
1.000
3.000
4.000
5.000
6.000
10.000

W.P.
425.000
HAM/HT
.850

PARAMETRIC VALUES
ALPHA
MACH
35.000
8.000
BETA
.000



LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH.

FIG 30 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 35 DEG. ANGLE OF ATTACK

(R0LS05) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL
 1.000
 3.000
 4.000
 5.000
 6.000
 10.000

V.P.
 465.000
 HAV/HT
 .850

ALPHA
 MACH

PARAMETRIC VALUES
 35.000 BETA
 8.000 .000

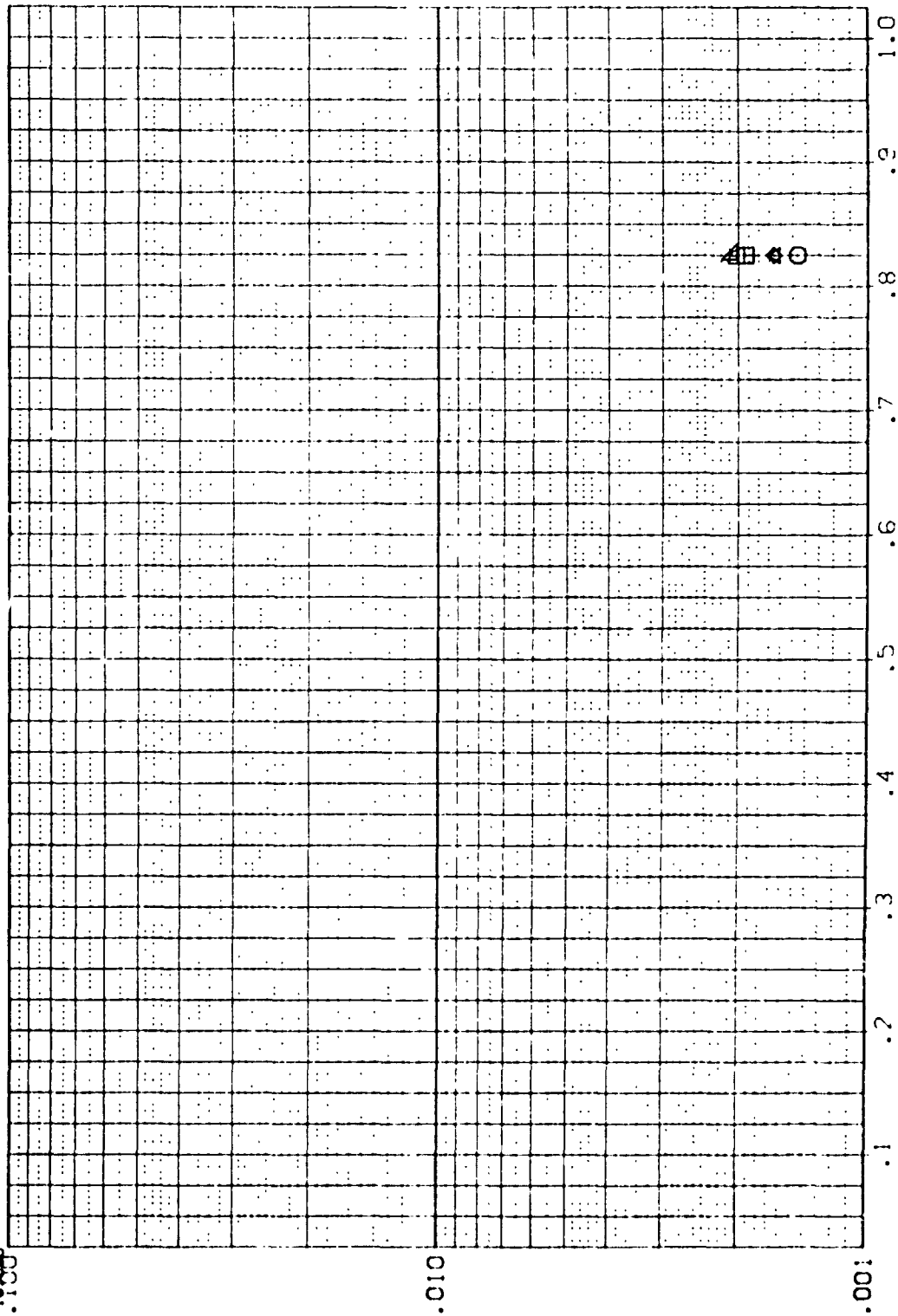


FIG 30 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 35 DEG. ANGLE OF ATTACK

[R0LS05] OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

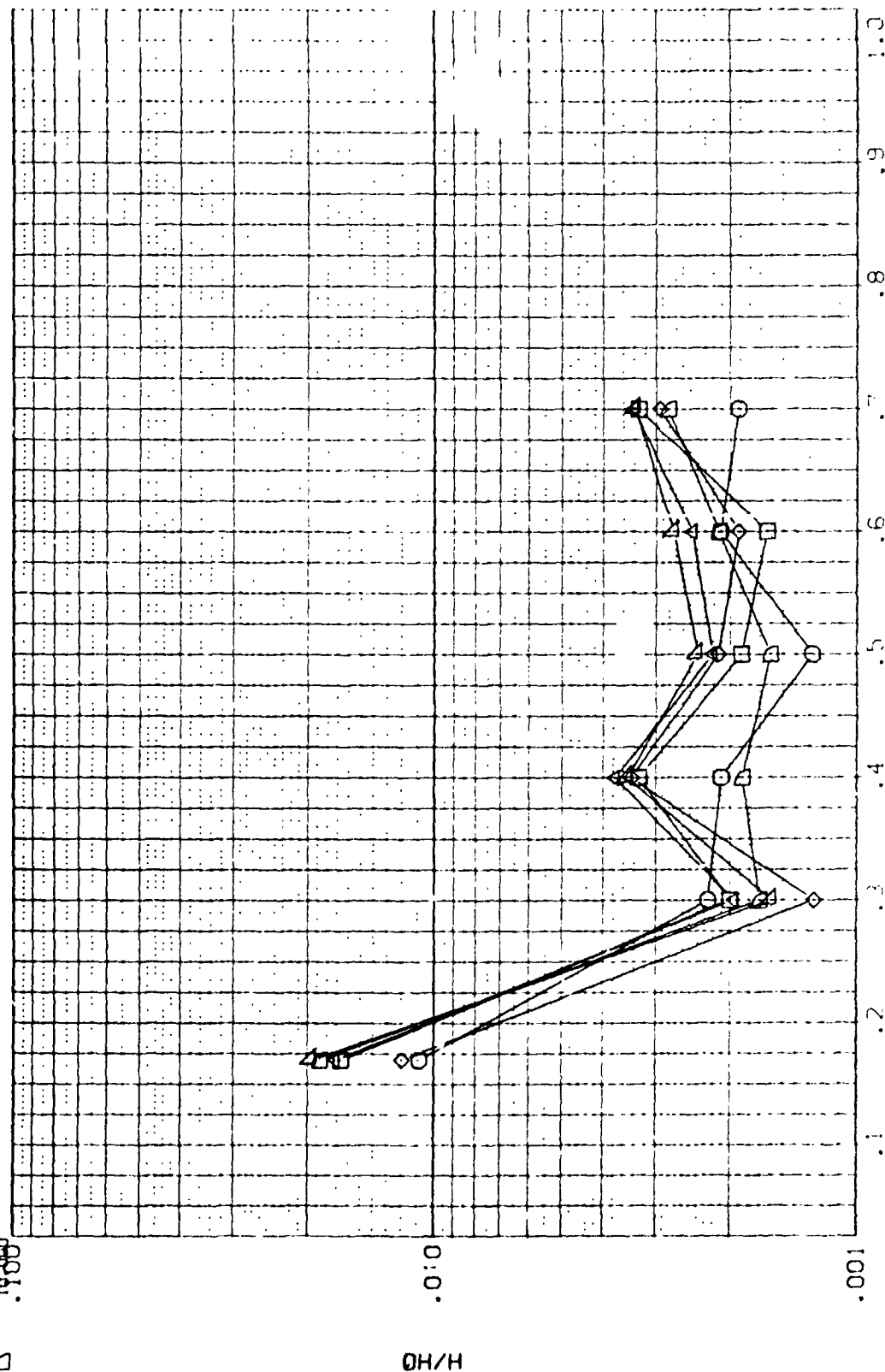
SYMBOL
RN/L
1.000
3.000
4.000
5.000
6.000
10.000

W.P.
501.000
HAW/HT
.850

ALPHA
MACH

PARAMETRIC VALUES
35.000 BETA
8.000

.500



LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 35 DEG. ANGLE OF ATTACK

FIG 30

(R0LS05) 0H14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
ALPHA 35.000 BETA 8.000
MACH .000

375.000
HAW/HT .900

SYMBOL RN/L
1.000
3.000
4.000
5.000
6.000
10.000

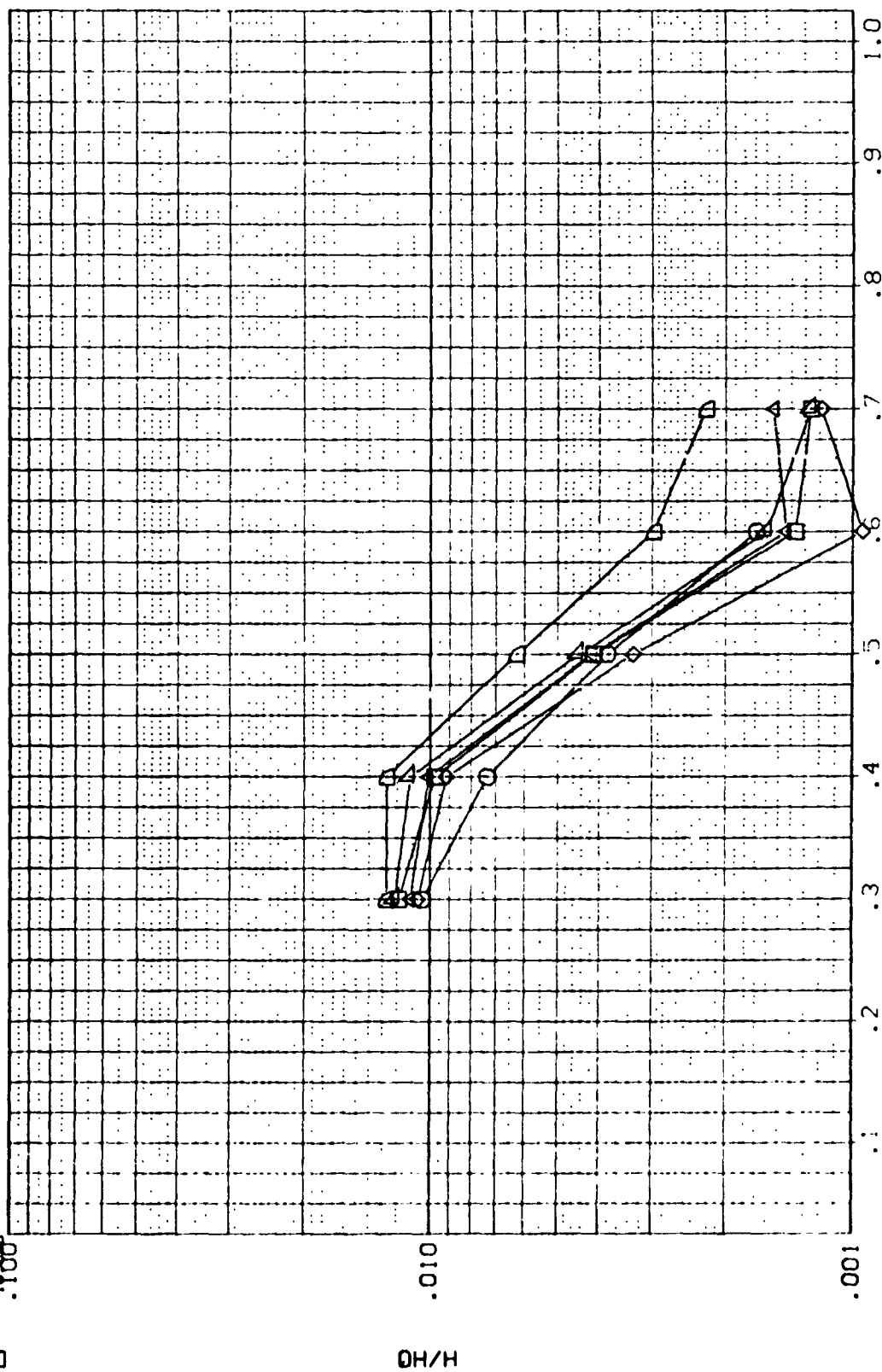


FIG 30 LONGITUDINAL FUSELAGE STATION, X/L. FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 35 DEG. ANGLE OF ATTACK

(RQLS05) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL RN/L
 1.000
 3.000
 4.000
 5.000
 6.000
 10.000

W.P. 400.000
 HAW/HT .900

ALPHA
 MACH

PARAMETRIC VALUES
 35.000 BETA
 8.000

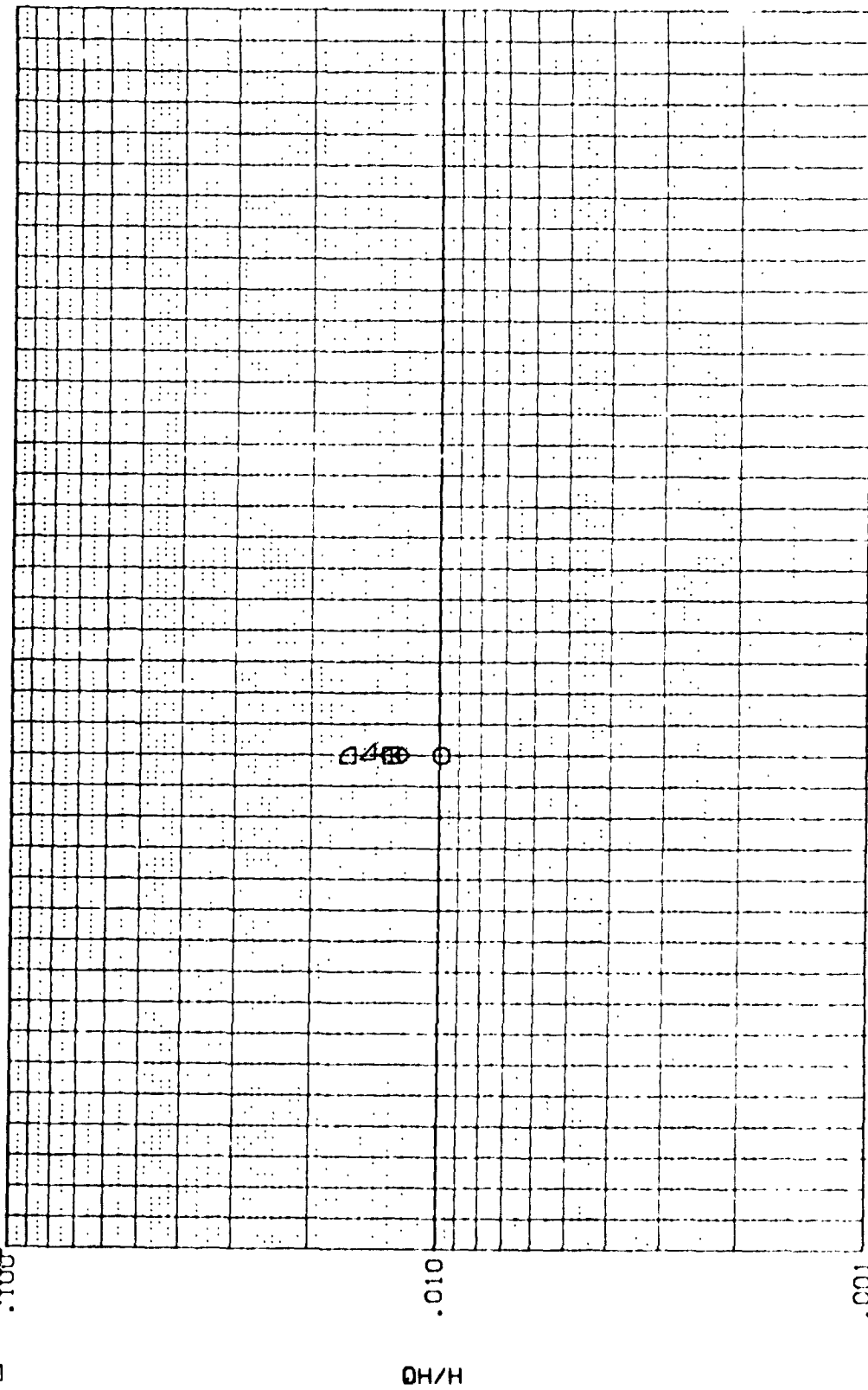


FIG 30 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 35 DEG. ANGLE OF ATTACK

(RQLS05) OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

PARAMETRIC VALUES
ALPHA MACH
35.000 BETA
8.000

SYMBOL RN/L V.P. HAV/H
1.000 425.000 .900
3.000
4.000
5.000
6.000
10.000

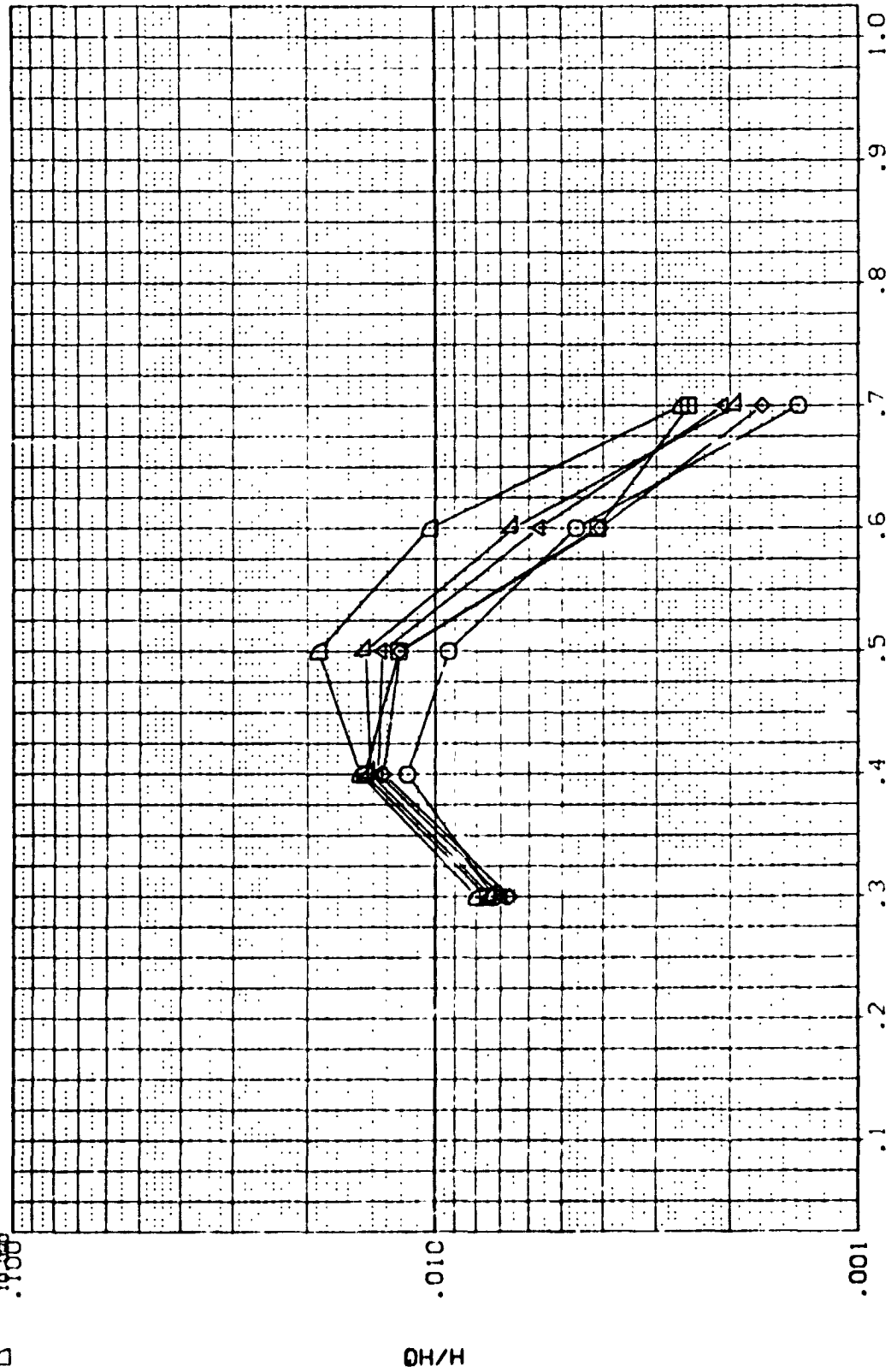


FIG 30

(R0LS05) 0H14 822C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL

RN/L

V.P.

MAV/MT

1.000
3.000
4.000
5.000
6.000
7.000

465.000

.900

PARAMETRIC VALUES

BETA

35.000

ALPHA

MACH

.000

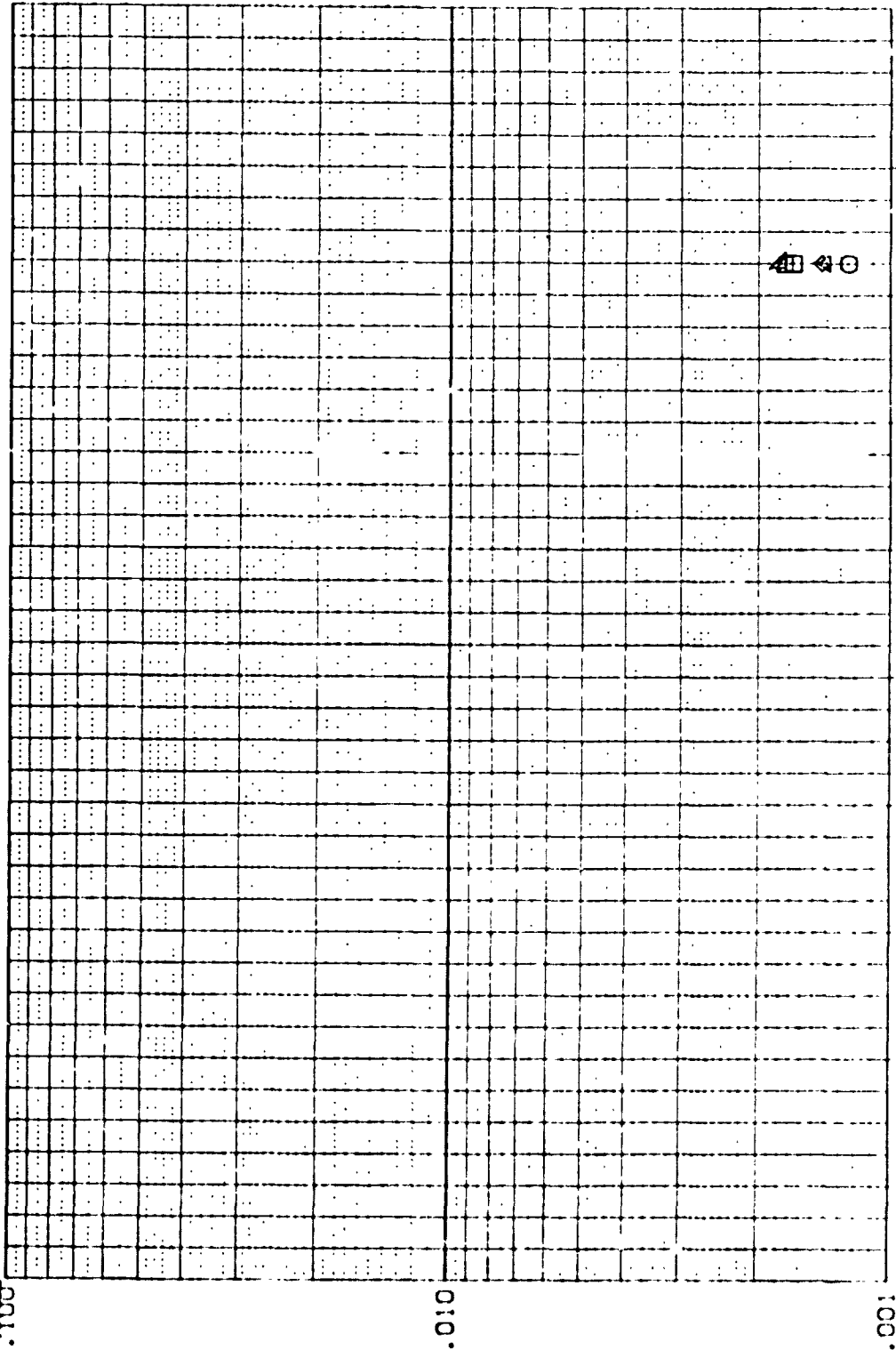


FIG 30 LONGITUDINAL FUSELAGE STATION. X/L. FRACTION OF BODY LENGTH
VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 35 DEG ANGLE OF ATTACK

(R0LS05) OH14 622C7F5M4V7W111 FUSELAGE UPPER SURFACE

SYMBOL
 1.000
 3.000
 4.000
 5.000
 6.000
 1900

W.P.
 SCI. 050
 MAY/AT
 .900

PARAMETRIC VALUES
 ALPHA
 MACH
 35.000
 8.000
 .000

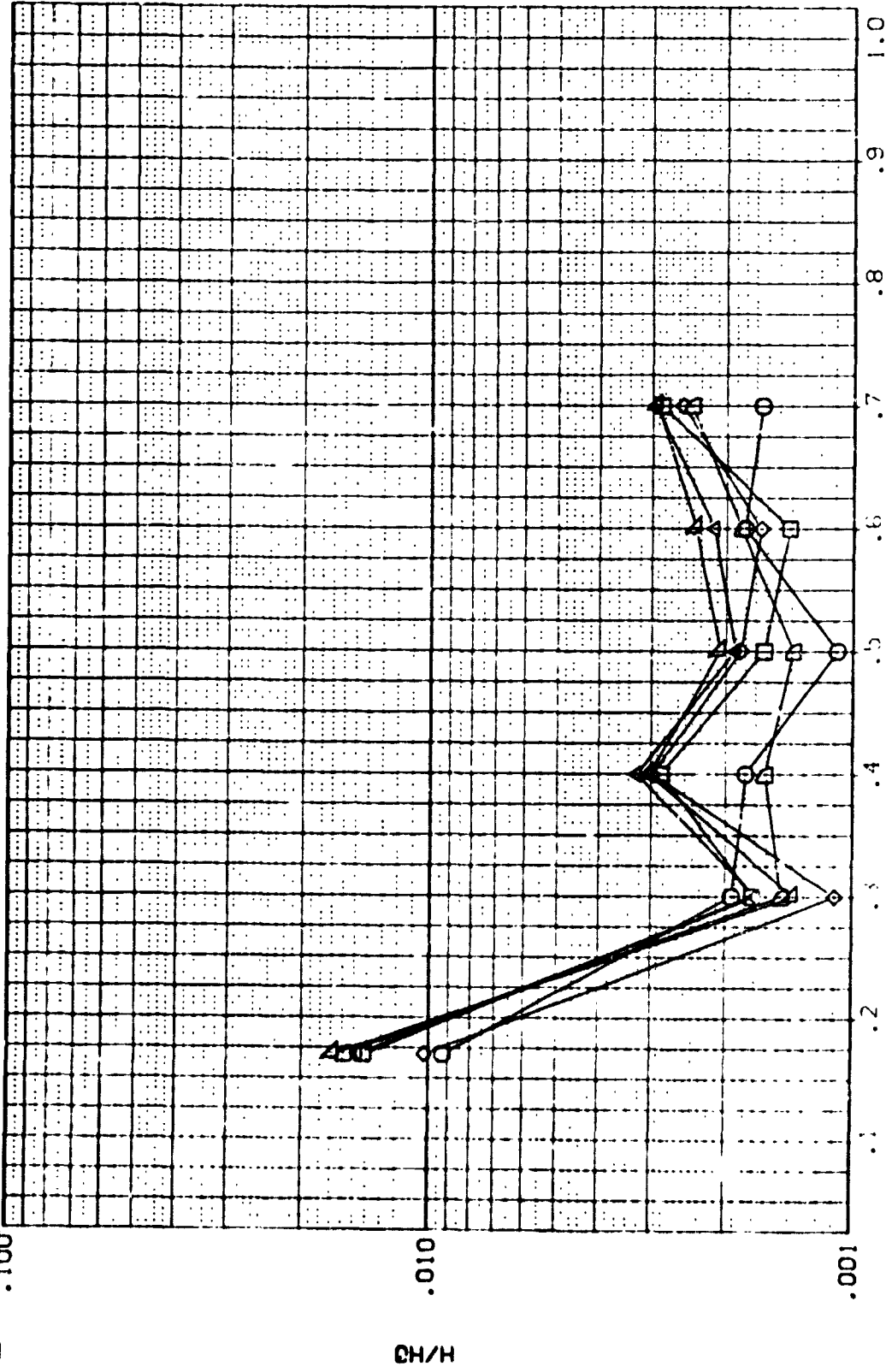


FIG 30 LONGITUDINAL FUSELAGE STATION, X/L, FRACTION OF BODY LENGTH
 VARIATION OF RN/L ON FUSELAGE UPPER SURFACE AT 35 DEG. ANGLE OF ATTACK

APPENDIX
TABULATED SOURCE DATA

Tabulations of plotted data are available
upon request from Data Management Services.

DATE 09 JUL 76

OHI4 TABULATED SOURCE DATA

PAGE :

OHI4 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE (RULJ02) (21 JUN 76)

REFERENCE DATA

SPEE = 2590.0000 SQ.FT. XMRP = .0000 IN.
REF = .290.3000 IN. YMRP = .0000
REF = 1230.3000 IN. ZMRP = .0000
SCALE = .0360

PARAMETRIC DATA

ALPHA = 20.000 BETA = .000
MACH = 8.000

PN/L (1) = 1.000 HAW/HT (1) = .850 MACH = 7.8120 PO = 238.51 TO = 1294.4 HO = .46000-01

SECTION (1) BOTTOM

3.P. .0000117.0000

X/L
.025 .1804
.050 .1104
.075 .0927
.100 .0762
.125 .0649
.150 .0544
.175 .0469
.200 .0422
.225 .0396
.250 .0354
.275 .0279
.300 .0379
.325 .0323
.350 .0311
.375 .0303
.400 .0489
.425 .0419
.450 .0218
.475 .0348
.500 .0203
.525 .0170
.550 .0190
.575 .0160
.600 .0136
.625 .0134
.650 .0204
.675 .0094

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PN/L (1) = 1.000 HAW/HT (2) = .900 MACH = 7.8120 PO = 238.51 TO = 1294.4 HO = .46000-01

SECTION (1) BOTTOM

3.P. .0000117.0000

X/L
.025 .1670
.050 .0985
.075 .0810
.100 .0682
.125 .0581

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 2

(ROLB02)

OH14 B22C7FSM4V7M111 FUSELAGE LOWER SURFACE

RN/L (1) = 1.070 HAM/HT (2) = .900

SECTION (1) BOTTOM DEPENDENT VARIABLE H/HO

E.P. .000017.0000

X/L

.150
.175 .0446
.200 .0414
.250 .0355
.300 .0318
.350 .0251
.400 .0290
.450 .0279
.500 .0272
.550
.600 .0214
.650 .0196
.700
.750 .0182
.800 .0153
.850 .0170
.900 .0143
.950 .0123
1.000 .0094
1.040 .0076

RN/L (2) = 3.000 HAM/HT (1) = .850

MACH = 7.9550

PO = 700.49

TO = 1388.8

HO = .79000-01

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

E.P. .000017.0000

X/L

.025 .1657
.050 .1144
.075 .0945
.100 .0799
.125 .0685
.150
.175 .0509
.200 .0457
.250 .0376
.300 .0347
.350 .0254
.400 .0222
.450 .0276
.500 .0282
.550
.600 .0238
.650

DATE 09 JUL 75

OH14 TABULATED SOURCE DATA

PAGE 3

OH14 B22C7F5M4V7M111 FUSELAGE LOWER SURFACE

(R0LB02)

RN/L (2) = 3.000 HAW/HT (1) = .850

SECTION (1) B0170M

DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

| X/L | |
|-------|-------|
| .700 | .0369 |
| .750 | .0177 |
| .800 | .0134 |
| .850 | .0167 |
| .900 | .0153 |
| .950 | .0131 |
| 1.000 | .0113 |
| 1.040 | .0085 |

RN/L (2) = 3.000 HAW/HT (2) = .900 MACH = 7.9550 P0 = 700.49 T0 = 1388.8 H0 = .79000-01

SECTION (1) B0170M

DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

| X/L | |
|-------|-------|
| .025 | .1542 |
| .050 | .1022 |
| .075 | .0847 |
| .100 | .0715 |
| .125 | .0615 |
| .150 | .0544 |
| .175 | .0458 |
| .200 | .0423 |
| .250 | .0355 |
| .300 | .0309 |
| .350 | .0234 |
| .400 | .0224 |
| .450 | .0249 |
| .500 | .0255 |
| .550 | .0255 |
| .600 | .0215 |
| .650 | .0332 |
| .700 | .0332 |
| .750 | .0150 |
| .800 | .0122 |
| .850 | .0151 |
| .900 | .0133 |
| .950 | .0119 |
| 1.000 | .0122 |
| 1.040 | .0076 |

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 4

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE (ROL802)

RM/L (3) = 6.000 HAM/HT (1) = .850 MACH = 8.0440 PO = 1471.1 TO = 1433.1 HO = .11100

SECTION (1) BOTTOM

B.P. .000017.0000

X/L
.025 .1914
.050 .1185
.075 .0983
.100 .0820
.125 .0702
.150
.175 .0529
.200 .0483
.250 .0401
.300 .0342
.350 .0251 .0405
.400 .0289
.450 .0259
.500 .0264 .0505
.550
.600 .0251 .0413
.650
.7000359
.750 .0217
.800 .0195 .0336
.850 .0269
.900 .0266 .0299
.950 .0251
1.000 .0237 .0238
1.040 .0192

RM/L (3) = 6.000 HAM/HT (2) = .900 MACH = 8.0440 PO = 1471.1 TO = 1433.1 HO = .11100

SECTION (1) BOTTOM

B.P. .000017.0000

X/L
.025 .1679
.050 .1056
.075 .0880
.100 .0735
.125 .0631
.150
.175 .0475
.200 .0435
.250 .0362
.300 .0309
.350 .0236 .0364
.400 .0251

DATE 03 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 5

OH14 B22C/F5M4V7W111 FUSELAGE LOWER SURFACE

(RQLB02)

RY/L (3) = 6.000 HAW/HT(2) = .900

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

| | |
|------|-------|
| X/L | |
| .50 | .0234 |
| .500 | .0239 |
| .500 | .0453 |
| .500 | .0227 |
| .500 | .0371 |
| .500 | .0324 |
| .500 | .0196 |
| .500 | .0176 |
| .500 | .0243 |
| .500 | .0240 |
| .500 | .0228 |
| .500 | .0214 |
| .500 | .0215 |
| .500 | .0174 |

RY/L (4) = 8.000 HAW/HT(1) = .850 MACH = 8.0810 PO = 2027.9 TO = 1427.2 HO = .12900

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

| | |
|------|-------|
| X/L | |
| .50 | .0234 |
| .500 | .0239 |
| .500 | .0453 |
| .500 | .0227 |
| .500 | .0371 |
| .500 | .0324 |
| .500 | .0196 |
| .500 | .0176 |
| .500 | .0243 |
| .500 | .0240 |
| .500 | .0228 |
| .500 | .0214 |
| .500 | .0215 |
| .500 | .0174 |

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 7

OH14 B22C7F5M4V7H111 WING LOWER SURFACE (RQL402) (21 JUN 76)

REFERENCE DATA

SPEC = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000
 BREF = 1290.3000 IN. ZMRP = .0000
 SCALE = .0050

PARAMETRIC DATA

ALPHA = 20.000 BETA = .000
 MACH = 8.000

PN/L (1) = 1.000 HAW/HT (1) = .850 MACH = 7.8120 PO = 238.51 TO = 1294.4 HO = .45000-01

DEPENDENT VARIABLE H/HO

SECTION (1) WING

2Y/B .0000 .5000 .6000 .8000

X/C

.050 .0902
 .100 .0862 .0750
 .200 .0599 .0656
 .300 .0420 .0529
 .400 .0352 .0479 .0534
 .500 .0329 .0455
 .600 .0289 .0431 .0395
 .700 .0256 .0386
 .800 .0224 .0356 .0304
 .900 .0172 .0223

PN/L (2) = 1.000 HAW/HT (2) = .300 MACH = 7.8120 PO = 238.51 TO = 1294.4 HO = .45000-01

SECTION (1) WING

2Y/B .0000 .5000 .6000 .8000

X/C

.050 .0804
 .100 .0769 .0671
 .200 .0535 .0588
 .300 .0377 .0474
 .400 .0316 .0429 .0479
 .500 .0277 .0408
 .600 .0260 .0387 .0345
 .700 .0229 .0346
 .800 .0201 .0316 .0273
 .900 .0155 .0200

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DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 8

OH14 B22C7F5M4V7W111 WING LOWER SURFACE (POLK02)

RN/L (2) = 3.000 HAW/H-T (1) = .850 MACH = 7.9550 PO = 700.49 TO = 1388.8 HO = .79000-01

SECTION (1) WING DEPENDENT VARIABLE H/HO

2Y/B .4000 .6000 .8000

X/C

.050 .0937
.100 .0929
.200 .0642
.300 .0441
.400 .0359
.500 .0314
.600 .0291
.700 .0259
.800 .0220
.900 .0157

RN/L (2) = 3.000 HAW/H-T (2) = .900 MACH = 7.9550 PO = 700.49 TO = 1388.8 HO = .79000-01

SECTION (1) WING DEPENDENT VARIABLE H/HO

2Y/B .4000 .6000 .8000

X/C

.050 .0834
.100 .0829
.200 .0577
.300 .0397
.400 .0324
.500 .0283
.600 .0262
.700 .0234
.800 .0199
.900 .0142

RN/L (3) = 6.000 HAW/H-T (1) = .850 MACH = 8.0440 PO = 1471.1 TO = 1433.1 HO = .11100

SECTION (1) WING DEPENDENT VARIABLE H/HO

2Y/B .4000 .6000 .8000

X/C

.050 .0990
.100 .0987
.200 .0690
.300 .0459
.400 .0382
.500 .0353
.600 .0313
.700 .0284
.800 .0245

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 9

OH14 322C7F5M4V7W1.1 WING LOWER SURFACE

(RQLW02)

RN/L (3) = 6.000 HAM/HT (1) = .850

SECTION (1) WING DEPENDENT VARIABLE H/HO

2Y/B .4000 .6000 .8000

X/C
.900 .0169 .0540

RN/L (3) = 6.000 HAM/HT (2) = .900 MACH = 8.0440 PO = 1471.1 TO = 1433.1 HO = .11100

SECTION (1) WING DEPENDENT VARIABLE H/HO

2Y/B .4000 .6000 .8000

X/C
.050 .0875
.100 .0877 .0822
.200 .0619 .0746
.300 .0422 .0685
.400 .0353 .0630 .0847
.500 .0318 .0303
.600 .0282 .0697 .0882
.700 .0255 .0850
.800 .0222 .0756
.900 .0152 .0494

RN/L (4) = 8.000 HAM/HT (1) = .850 MACH = 8.0810 PO = 2027.9 TO = 1427.2 HO = .12500

SECTION (1) WING DEPENDENT VARIABLE H/HO

2Y/B .4000 .6000 .8000

X/C
.050 .1120
.100 .1001 .0999
.200 .0738 .0992
.300 .0544 .1135
.400 .0482 .1126 .1105
.500 .0456 .1258
.600 .0388 .1456 .1149
.700 .0368 .1319
.800 .0334 .0938
.900 .0221 .0695

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 10

OH14 B22C7F5M4V7H111 WING LOWER SURFACE (ROLW02)

RN/L (4) = 8.000 MAW/HT (2) = .900 MACH = 8.0810 PO = 2027.9 TO = 1427.2 HO = .12900

DEPENDENT VARIABLE H/HO

SECTION (1) WING

2Y/B .4000 .6000 .8000

X/C

| | | |
|------|-------|-------|
| .050 | .0983 | |
| .100 | .0985 | .0898 |
| .200 | .0658 | .0878 |
| .300 | .0428 | .0895 |
| .400 | .0433 | .0964 |
| .500 | .0410 | .0774 |
| .600 | .0350 | .1259 |
| .700 | .0332 | .1155 |
| .800 | .0301 | .0933 |
| .900 | .0200 | .0620 |

DATE 29 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 11

OH14 822C7F5M4V7W111 FUSELAGE UPPER SURFACE (RQL502) (21 JUN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000
 BREF = 1290.3000 IN. ZMRP = .0000
 SCALE = .0060

PARAMETRIC DATA

ALPHA = 20.000 BETA = .000
 MACH = 8.000

RN/L (1) = 1.000 HAW/HT (1) = .850 MACH = 7.8120 PO = 238.51 TO = 1294.4 HO = .45000-01

SECTION 1 11TOP

DEPENDENT VARIABLE H/HO

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

H.P.

375.000 .0125 .0178 .0191 .0133 .0088 .0034
 400.000 .0081 .0130 .0189 .0189 .0197 .0117
 425.000 .0153 .0027 .0033 .0046 .0052 .0039 .0128
 450.000
 501.000

RN/L (2) = 1.000 HAW/HT (2) = .900 MACH = 7.8120 PO = 238.51 TO = 1294.4 HO = .46000-01

SECTION 1 11TOP

DEPENDENT VARIABLE H/HO

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

H.P.

375.000 .0112 .0160 .0171 .0120 .0079 .0031
 400.000 .0073 .0117 .0170 .0170 .0177 .0106
 425.000 .0138 .0024 .0030 .0041 .0047 .0035 .0115
 450.000
 501.000

RN/L (2) = 3.000 HAW/HT (2) = .850 MACH = 7.9530 PO = 700.19 TO = 1388.8 HO = .79000-01

SECTION 1 11TOP

DEPENDENT VARIABLE H/HO

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

H.P.

375.000 .0131 .0235 .0221 .0186 .0117 .0038
 400.000 .0082 .0130 .0205 .0205 .0264 .0165
 425.000 .0191 .0023 .0049 .0069 .0068 .0047 .0240
 450.000
 501.000

DATE 05 JUL 76

041+ TABULATED SOURCE DATA

PAGE 12

041+ B22C75-14V74111 FUSELAGE UPPER SURFACE (ROLS02)

RN/L (2) = 3.000 HAW/HT (2) = .900 MACH = 7.9550 PO = 700.49 TO = 1388.8 MO = .78000-0;

SECTION (1) TOP

DEPENDENT VARIABLE H/HO

| | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .1700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
| W.P. | | | | | | | | |
| 375.000 | | .0118 | .0212 | | .0168 | .0106 | .0034 | |
| 400.000 | | | .0200 | | | | | |
| 425.000 | | .0074 | .0118 | | .0185 | .0238 | .0149 | |
| 450.000 | | | | | | | | .0217 |
| 501.000 | .0172 | .0021 | .0043 | | .0062 | .0061 | .0043 | |

RN/L (3) = 6.000 HAW/HT (1) = .850 MACH = 8.0440 PO = 1471.1 TO = 1433.1 MO = .11100

SECTION (1) TOP

DEPENDENT VARIABLE H/HO

| | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .1700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
| W.P. | | | | | | | | |
| 375.000 | | .0144 | .0277 | | .0228 | .0169 | .0073 | |
| 400.000 | | | .0239 | | | | | |
| 425.000 | | .0085 | .0136 | | .0207 | .0281 | .0222 | |
| 450.000 | | | | | | | | .0361 |
| 501.000 | .0243 | .0023 | .0056 | | .0062 | .0052 | .0047 | |

RN/L (3) = 6.000 HAW/HT (2) = .900 MACH = 8.0440 PO = 1471.1 TO = 1433.1 MO = .11100

SECTION (1) TOP

DEPENDENT VARIABLE H/HO

| | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .1700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
| W.P. | | | | | | | | |
| 375.000 | | .0131 | .0251 | | .0207 | .0153 | .0066 | |
| 400.000 | | | .0216 | | | | | |
| 425.000 | | .0077 | .0123 | | .0188 | .0254 | .0201 | |
| 450.000 | | | | | | | | .0323 |
| 501.000 | .0220 | .0023 | .0051 | | .0057 | .0048 | .0042 | |

RN/L (4) = 8.000 HAW/HT (1) = .850 MACH = 8.0310 PO = 2027.9 TO = 1427.2 MO = .12800

SECTION (1) TOP

DEPENDENT VARIABLE H/HO

| | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .1700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
| W.P. | | | | | | | | |
| 375.000 | | .0147 | .0306 | | .0256 | .0185 | .0080 | |
| 400.000 | | | .0248 | | | | | |
| 425.000 | | .0087 | .0135 | | .0208 | .0265 | .0239 | |
| 450.000 | | | | | | | | .0381 |
| 501.000 | .0239 | .0029 | .0071 | | .0084 | .0084 | .0048 | |

OH14 TABULATED SOURCE DATA

OH14 B32C7F5M4V7W111 FUSELAGE UPPER SURFACE :RQLS021

FN/L (4) = 8.000 H24/WT(2) = .900 MACH = 8.0810 PO = 2027.3 TO = 1427.2 HO = .12900

SECTION 111TOP

DEPENDENT VARIABLE H/HO

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.
375.000
400.000
425.000
450.000
500.000

.0133 .0276 .0224 .0231 .0167 .0073
.0079 .0123 .0168 .0258 .0216 .0340
.0261 .0026 .0055 .0076 .0076 .0043

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DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 1

OH14 B22C7F5M4V7M111 ORBITER FUSELAGE CHINE

(RQLM02) (21 JUN 75

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP =
LREF = 1290.3000 IN. YMRP =
BREF = 1290.3000 IN. ZMRP =
SCALE = .0050

PARAMETRIC DATA
ALPHA = 20.000 BETA = .000
MACH = 8.000

PNL (1) = 1.000 HAW/HT(1) = .050 MACH = 7.8120 P0 = 238.51 T0 = 1294.4 MO = .45000-01

SECTION 1: CHINE

ANGLE 30.0000

X/L
.100 .1105
.150 .0863
.200 .0549

PNL (2) = 1.000 HAW/HT(2) = .900 MACH = 7.8120 P0 = 238.51 T0 = 1294.4 MO = .45000-01

SECTION 1: CHINE

ANGLE 30.0000

X/L
.100 .0987
.150 .0771
.200 .0491

PNL (2) = 3.000 HAW/HT(1) = .050 MACH = 7.9550 P0 = 700.49 T0 = 1388.8 MO = .79000-01

SECTION 1: CHINE

ANGLE 30.0000

X/L
.100 .1145
.150 .0910
.200 .0592

PNL (2) = 3.000 HAW/HT(2) = .900 MACH = 7.9550 P0 = 700.49 T0 = 1388.8 MO = .79000-01

SECTION 1: CHINE

ANGLE 30.0000

X/L
.100 .1022
.150 .0815
.200 .0532

OH14 TABULATED SOURCE DATA

(RQLM02)

OH14 B22C7F5H4V7W111 ORBITER FUSELAGE CHINE

HO = 1433.1

TO = 1471.1

PO = 8.0440

HAW/HT(1) =

RN/L(3) = 6.000

SECTION(1) CHINE

ANGLE 30.0000

X/L
.100 .1173
.150 .0955
.200 .0609

RN/L(3) = 6.000

MACH = 8.0440

PO = 1471.1

TO = 1433.1

HO = 11100

DEPENDENT VARIABLE H/HO

SECTION(1) CHINE

ANGLE 30.0000

X/L
.100 .1045
.150 .0853
.200 .0548

RN/L(4) = 9.000

MACH = 8.0810

PO = 2027.9

TO = 1427.2

HO = 12900

DEPENDENT VARIABLE H/HO

SECTION(1) CHINE

ANGLE 30.0000

X/L
.100 .1202
.150 .0991
.200 .0626

RN/L(4) = 8.000

MACH = 8.0810

PO = 2027.9

TO = 1427.2

HO = 12900

DEPENDENT VARIABLE H/HO

SECTION(1) CHINE

ANGLE 30.0000

X/L
.100 .1055
.150 .0883
.200 .0562

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 16

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

(RQLB03) (21 JUN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
LREF = 1290.3000 IN. YMRP = .0000
BREF = 1290.3000 IN. ZMRP = .0000
SCALE = .0060

PARAMETRIC DATA

ALPHA = 25.000 BETA = .000
MACH = 8.000

PN/L (1) = 1.000 HAW/HI (1) = .850 MACH = 7.8030 P0 = 224.18 T0 = 1259.0 H0 = .44000-01

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/H0

B.P. .0000117.0000

X/L
.025 .1729
.050 .1112
.075 .0958
.100 .0832
.125 .0732
.150 .0642
.175 .0584
.200 .0542
.250 .0471
.300 .0424
.350 .0332 .0404
.400 .0384
.450 .0362
.500 .0360 .0509
.550 .0360
.600 .0315 .0421
.650 .0314
.700 .0349
.750 .0296
.800 .0238 .0299
.850 .0260
.900 .0206 .0258
.950 .0193
1.000 .0162 .0180
1.040 .0118

PN/L (1) = 1.000 HAW/HI (2) = .900 MACH = 7.8030 P0 = 224.18 T0 = 1259.0 H0 = .44000-01

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/H0

B.P. .0000117.0000

X/L
.025 .1497
.050 .0959
.075 .0844
.100 .0727
.125 .0640

OH14 TABULATED SOURCE DATA

(RQLB03)

OH14 B22C7F5M4V7M111 FUSELAGE LOWER SURFACE

DATE 03 JUL 76

PN/L (1) = 1.000 HAM/HT(2) = .900

SECTION (1) BOTTOM DEPENDENT VARIABLE H/HO

B.P. .000017.0000

X/L
 .150
 .175 .0511
 .200 .0475
 .250 .0412
 .300 .0371
 .350 .0291 .0353
 .400 .0337
 .450 .0317
 .500 .0315 .0445
 .550
 .600 .0276 .0369
 .650 .0275
 .700
 .750 .0260 .0306
 .800 .0209 .0262
 .850 .0228
 .900 .0181 .0226
 .950 .0153
 1.000 .0142 .0158
 1.040 .0104

PN/L (2) = 3.000 HAM/HT(1) = .950 MACH = 7.9590 PO = 720.71 TO = 1370.5 HO = .79000-01

SECTION (1) BOTTOM DEPENDENT VARIABLE H/HO

B.P. .000017.0000

X/L
 .025 .1861
 .050 .1225
 .075 .1057
 .100 .0906
 .125 .0790
 .150
 .175 .0615
 .200 .0575
 .250 .0507
 .300 .0445
 .350 .0363 .0426
 .400 .0402
 .450 .0372
 .500 .0368 .0545
 .550
 .600 .0322 .0443
 .650 .0314

DATE 09 JUL 76

CH14 TABULATED SOURCE DATA

PAGE 18

CH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE (ROLB03)

RN/L (2) = 3.000 HAW/HT(1) = .850

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

X/L
.7000394
.750 .0349
.800 .0295 .0545
.850 .0351
.900 .0307 .0627
.950 .0262
1.000 .0245 .0514
1.040 .0212

RN/L (2) = 3.000 HAW/HT(2) =

.900 MACH = 7.9590

PC

= 720.7;

TO

= 1370.5

HO

= .79000-3;

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

X/L
.025 .1607
.050 .1370
.075 .0926
.100 .0795
.125 .0694
.150
.175 .0542
.200 .0506
.250 .0448
.300 .0394
.350 .0312 .0375
.400 .0355
.450 .0329
.500 .0325 .0479
.550
.600 .0295 .0396
.650 .0278
.7000347
.750 .0309
.800 .0261 .0480
.850 .0310
.900 .0271 .0551
.950 .0232
1.000 .0217 .0453
1.040 .0188

DATE 29 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 19

OH14 B22C7F5M4V7M111 FUSELAGE LOWER SURFACE: (RQLB03)

PN/L (3) = 4.000 HAM/HT(1) = .850 MACH = 7.9960 PO = 977.05 TO = 1435.5 HO = .92000-01

SECTION (1) BOTTOM DEPENDENT VARIABLE H/HO

B.P. .000017.0000

X/L
.025 .1648
.050 .1280
.075 .1102
.100 .0935
.125 .0808
.150
.175 .0537
.200 .0394
.225 .0526
.250 .051
.275 .0356
.300 .0313
.325 .0375
.350
.375 .0551
.400
.425 .0469
.450 .0435
.475 .0624
.500 .0378
.525 .0339
.550 .0697
.575 .0203
.600 .0533
.625 .0566
.650
.675 .0229

PN/L (3) = 4.000 HAM/HT(2) = .900 MACH = 7.9960 PO = 977.05 TO = 1435.5 HO = .92000-01

SECTION (1) BOTTOM DEPENDENT VARIABLE H/HO

B.P. .000017.0000

Y/L
.025 .1399
.050 .1120
.075 .0967
.100 .0923
.125 .0712
.150
.175 .0593
.200 .0323
.225 .0466
.250 .0428
.275 .0316
.300 .0330
.325
.350 .0365

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DATE 09 JUL 75

OH14 TABULATED SOURCE DATA

PAGE 20

(RQLB03)

OH14 B22C7F5M4V7M111 FUSELAGE LOWER SURFACE

RN/L (3) = 4.000 HAW/HT(2) = .900

SECTION (1) SECTION
DEPENDENT VARIABLE H/HO

B.P. .000017.0000

| X/L | |
|-------|-------|
| .450 | .0340 |
| .500 | .0339 |
| .550 | .0485 |
| .600 | .0308 |
| .650 | .0414 |
| .700 | .0339 |
| .750 | .0385 |
| .800 | .0316 |
| .850 | .0549 |
| .900 | .0313 |
| .950 | .0613 |
| 1.000 | .0333 |
| 1.040 | .0499 |
| 1.080 | .0213 |

RN/L (4) = 5.000 HAW/HT(1) = .850 MACH = 8.0220 PO = 12 8.8 TO = 1393.5 HO = .10200

SECTION (1) SECTION
DEPENDENT VARIABLE H/HO

B.P. .000017.0000

| X/L | |
|-------|-------|
| .025 | .1395 |
| .050 | .1332 |
| .075 | .1153 |
| .100 | .0956 |
| .125 | .0833 |
| .150 | .0655 |
| .175 | .0554 |
| .200 | .0499 |
| .225 | .0414 |
| .250 | .0367 |
| .275 | .0355 |
| .300 | .0391 |
| .325 | .0355 |
| .350 | .0342 |
| .375 | .0377 |
| .400 | .0325 |
| .425 | .0342 |
| .450 | .0316 |
| .475 | .0313 |
| .500 | .0313 |
| .525 | .0313 |
| .550 | .0313 |
| .575 | .0313 |
| .600 | .0313 |
| .625 | .0313 |
| .650 | .0313 |
| .675 | .0313 |
| .700 | .0313 |
| .725 | .0313 |
| .750 | .0313 |
| .775 | .0313 |
| .800 | .0313 |
| .825 | .0313 |
| .850 | .0313 |
| .875 | .0313 |
| .900 | .0313 |
| .925 | .0313 |
| .950 | .0313 |
| .975 | .0313 |
| 1.000 | .0313 |

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 21

OH14 B22CTF5M4V7M111 FUSELAGE LOWER SURFACE (RQLB03)

RN/L (4) = 5.000 HAW/HT(1) = .850

SECTION (1) BOTTOM

B.P. .0000117.0000

X/L
1.040 .0331

RN/L (4) = 5.000 HAW/HT(2) = .900 MACH = 8.0220 PO = 1218.8 TO = 1393.5 HO = .10200

SECTION (1) BOTTOM

B.P. .0000117.0000

X/L
.025 .1708
.050 .1538
.075 .0939
.100 .0647
.125 .0731
.150 .0000
.175 .0000
.200 .0000
.250 .0000
.300 .0000
.350 .0000
.400 .0000
.450 .0000
.500 .0000
.550 .0000
.600 .0000
.650 .0000
.700 .0000
.750 .0000
.800 .0000
.850 .0000
.900 .0000
.950 .0000
1.000 .0000
1.040 .0000

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 22

(RQL803)

OH14 B2C7F5M4V7M111 FUSELAGE LOWER SURFACE

PN/L (5) = 0.000 HAW/HT(1) = .950 MACH = 8.0440 PO = 1471.1 TO = 1400.5 HC = .11100

SECTION (1) BOTTOM DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

X/L
.025 .2095
.050 .1362
.075 .1203
.100 .1019
.125 .0875
.150
.175 .0676
.200 .0527
.225 .0555
.250 .0494
.275 .0581
.300 .0433
.325 .0405
.350 .0332
.375 .0585
.400
.425 .0365
.450 .0363
.475 .0475
.500 .0480
.525 .0478
.550 .0520
.575 .0577
.600 .0540
.625 .0561
.650 .0651
.675 .0463

PN/L (5) = 0.000 HAW/HT(2) = .900 MACH = 9.0440 PO = 1471.1 TO = 1400.5 HC = .11100

SECTION (1) BOTTOM DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

X/L
.025 .1782
.050 .1198
.075 .1048
.100 .0891
.125 .0767
.150
.175 .0595
.200 .0562
.225 .0490
.250 .0435
.275 .0437
.300 .0409
.325 .0382

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 23

(ROLB03)

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

PN/L (5) = 6.000 HAW/HT (2) = .900

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

B.P. .000017.0000

| | | |
|-----|-------|-------|
| X/L | .450 | .0358 |
| | .500 | .0355 |
| | .550 | .0352 |
| | .600 | .0349 |
| | .650 | .0346 |
| | .700 | .0343 |
| | .750 | .0340 |
| | .800 | .0337 |
| | .850 | .0334 |
| | .900 | .0331 |
| | .950 | .0328 |
| | 1.000 | .0325 |
| | 1.050 | .0322 |
| | 1.100 | .0319 |

PN/L (6) = 8.000 HAW/HT (1) = .850

MACH = 8.0810

P0

= 2022.0

T0

= 1395.1

H0

= .12800

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

B.P. .000017.0000

| | | |
|-----|-------|-------|
| X/L | .025 | .2146 |
| | .050 | .1991 |
| | .075 | .1836 |
| | .100 | .1681 |
| | .125 | .1526 |
| | .150 | .1371 |
| | .175 | .1216 |
| | .200 | .1061 |
| | .225 | .0906 |
| | .250 | .0751 |
| | .275 | .0596 |
| | .300 | .0441 |
| | .325 | .0286 |
| | .350 | .0131 |
| | .375 | .0076 |
| | .400 | .0021 |
| | .425 | .0000 |
| | .450 | .0000 |
| | .475 | .0000 |
| | .500 | .0000 |
| | .525 | .0000 |
| | .550 | .0000 |
| | .575 | .0000 |
| | .600 | .0000 |
| | .625 | .0000 |
| | .650 | .0000 |
| | .675 | .0000 |
| | .700 | .0000 |
| | .725 | .0000 |
| | .750 | .0000 |
| | .775 | .0000 |
| | .800 | .0000 |
| | .825 | .0000 |
| | .850 | .0000 |
| | .875 | .0000 |
| | .900 | .0000 |
| | .925 | .0000 |
| | .950 | .0000 |
| | .975 | .0000 |
| | 1.000 | .0000 |

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DATE 29 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 24

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE (ROLB03)

RN/L (6) = 8.000 HAW/HT (1) = .850

SECTION (1) : BOTTOM

B.P. .0000117.0000

X/L
1.040 .0654

RN/L (6) = 8.000 HAW/HT (2) = .900 MACH = 8.0810 PO = 2022.0 TO = 1395.1 HO = .12903

SECTION (1) : BOTTOM

B.P. .0000117.0000

X/L
.025 .1811
.060 .1201
.075 .1044
.100 .0849
.125 .0777
.150 .0704
.175 .0621
.200 .0538
.225 .0455
.250 .0372
.275 .0289
.300 .0206
.325 .0123
.350 .0040
.375 .0000
.400 .0000
.425 .0000
.450 .0000
.475 .0000
.500 .0000
.525 .0000
.550 .0000
.575 .0000
.600 .0000
.625 .0000
.650 .0000
.675 .0000
.700 .0000
.725 .0000
.750 .0000
.775 .0000
.800 .0000
.825 .0000
.850 .0000
.875 .0000
.900 .0000
.925 .0000
.950 .0000
.975 .0000
1.000 .0000
1.025 .0000
1.050 .0000
1.075 .0000
1.100 .0000
1.125 .0000
1.150 .0000
1.175 .0000
1.200 .0000
1.225 .0000
1.250 .0000
1.275 .0000
1.300 .0000
1.325 .0000
1.350 .0000
1.375 .0000
1.400 .0000
1.425 .0000
1.450 .0000
1.475 .0000
1.500 .0000
1.525 .0000
1.550 .0000
1.575 .0000
1.600 .0000
1.625 .0000
1.650 .0000
1.675 .0000
1.700 .0000
1.725 .0000
1.750 .0000
1.775 .0000
1.800 .0000
1.825 .0000
1.850 .0000
1.875 .0000
1.900 .0000
1.925 .0000
1.950 .0000
1.975 .0000
2.000 .0000

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 25

OH14 B22C7F5M4V7M11: FUSELAGE LOWER SURFACE (RCLB03)

PN/L (7) = 10.000 HAW/HT (1) = .850 MACH = 8.1060 PO = 2530.9 TO = 1447.3 HO = .14300

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

X/L

.025 .2185
.050 .1419
.075 .1219
.100 .1047
.125 .0915
.150 .0777
.175 .0659
.200 .0553
.225 .0465
.250 .0379
.275 .0293
.300 .0217
.325 .0141
.350 .0077
.375 .0021
.400 .0000
.425 .0000
.450 .0000
.475 .0000
.500 .0000
.525 .0000
.550 .0000
.575 .0000
.600 .0000
.625 .0000
.650 .0000
.675 .0000
.700 .0000
.725 .0000
.750 .0000
.775 .0000
.800 .0000
.825 .0000
.850 .0000
.875 .0000
.900 .0000
.925 .0000
.950 .0000
.975 .0000
1.000 .0000
1.025 .0000
1.050 .0000
1.075 .0000
1.100 .0000
1.125 .0000
1.150 .0000
1.175 .0000
1.200 .0000
1.225 .0000
1.250 .0000
1.275 .0000
1.300 .0000
1.325 .0000
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1.675 .0000
1.700 .0000
1.725 .0000
1.750 .0000
1.775 .0000
1.800 .0000
1.825 .0000
1.850 .0000
1.875 .0000
1.900 .0000
1.925 .0000
1.950 .0000
1.975 .0000
2.000 .0000

PN/L (7) = 10.000 HAW/HT (2) = .900 MACH = 8.1060 PO = 2530.9 TO = 1447.3 HO = .14300

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

Y/L

.025 .1830
.050 .1221
.075 .1056
.100 .0911
.125 .0798
.150 .0700
.175 .0623
.200 .0553
.225 .0493
.250 .0443
.275 .0403
.300 .0373
.325 .0343
.350 .0313
.375 .0283
.400 .0253
.425 .0223
.450 .0193
.475 .0163
.500 .0133
.525 .0103
.550 .0073
.575 .0043
.600 .0013
.625 .0000
.650 .0000
.675 .0000
.700 .0000
.725 .0000
.750 .0000
.775 .0000
.800 .0000
.825 .0000
.850 .0000
.875 .0000
.900 .0000
.925 .0000
.950 .0000
.975 .0000
1.000 .0000
1.025 .0000
1.050 .0000
1.075 .0000
1.100 .0000
1.125 .0000
1.150 .0000
1.175 .0000
1.200 .0000
1.225 .0000
1.250 .0000
1.275 .0000
1.300 .0000
1.325 .0000
1.350 .0000
1.375 .0000
1.400 .0000
1.425 .0000
1.450 .0000
1.475 .0000
1.500 .0000
1.525 .0000
1.550 .0000
1.575 .0000
1.600 .0000
1.625 .0000
1.650 .0000
1.675 .0000
1.700 .0000
1.725 .0000
1.750 .0000
1.775 .0000
1.800 .0000
1.825 .0000
1.850 .0000
1.875 .0000
1.900 .0000
1.925 .0000
1.950 .0000
1.975 .0000
2.000 .0000

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 26

OH14 B22C7F5M4V7H111 FUSELAGE LOWER SURFACE

(ROLB03)

RN/L (7) = 10.000 HAW/MT (2) = .900

SECTION (1) : BOTTOM

DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

| X/L | | |
|-------|-------|-------|
| .450 | .0363 | |
| .500 | .0362 | .0503 |
| .550 | ..... |  |
| .600 | .0353 | .0456 |
| .650 | .0218 | |
| .700 | ..... | .0534 |
| .750 | .0753 | |
| .800 | .0803 | .0764 |
| .850 | .1040 | |
| .900 | .0833 | .0783 |
| .950 | .0652 | |
| 1.000 | .0226 | .0644 |
| 1.040 | .0649 | |

PAGE

(CONTINUED)

PSYCHOMETRIC DATA

[illegible]

61
C. 597

11-10-44

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[illegible]

900
MACH
7.8050

CEC:CN- VAP:AGLE 1 10

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X

[illegible]

OH14 TABULATED SOURCE DATA

DATE 09 JUL 76

OH14 822C7F5M4V7W111 WING LOWER SURFACE (RQLW03)
PN/L (2) = 3.000 HAW/HT (1) = .850 MACH = 7.9590 PO = 720.71 TO = 1370.5 HO = .79000-01

DEPENDENT VARIABLE H/HO

SECTION (1) WING

2Y/B .4000 .6000 .8000

X/C

.050 .0910
.100 .0913 .0962
.200 .0683 .0868
.300 .0465 .0735
.400 .0371 .0577 .0697
.500 .0322 .0655
.600 .0297 .0641 .0555
.700 .0274 .0583
.800 .0239.....
.900 .0188 .0327

PN/L (2) = 3.000 HAW/HT (2) = .900 MACH = 7.9590 PO = 720.71 TO = 1370.5 HO = .79000-01

DEPENDENT VARIABLE H/HO

SECTION (1) WING

2Y/B .4000 .6000 .8000

X/C

.050 .0793
.100 .0798 .0844
.200 .0501 .0762
.300 .0410 .0646
.400 .0328 .0594 .0514
.500 .0284 .0584
.600 .0262 .0563 .0489
.700 .0243 .0513
.800 .0212.....
.900 .0166 .0229

PN/L (3) = 4.000 HAW/HT (1) = .850 MACH = 7.9960 PO = 977.05 TO = 1435.5 HO = .92000-01

DEPENDENT VARIABLE H/HO

SECTION (1) WING

2Y/B .4000 .6000 .8000

X/C

.050 .0812
.100 .0942 .0980
.200 .0695 .0860
.300 .0427 .0684
.400 .0394 .0650 .0785
.500 .0343 .0572
.600 .0322 .0791 .0697
.700 .0305 .0719
.800 .0271.....
.900 .0271.....

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 29

OH14 B22C7F5M4V7W111 WING LOWER SURFACE

(RQLW03)

RN/L (3) = 4.000 HAW/HT (1) = .850

SECTION (1) WING

DEPENDENT VARIABLE H/HO

2Y/B .4000 .6000 .8000

X/C

.900 .0199 .0385

RN/L (3) = 4.000 HAW/HT (2) = .900

MACH = 7.9960

PO = 977.05

TO = 1435.5

HO = .92000-01

SECTION (1) WING

DEPENDENT VARIABLE H/HO

2Y/B .4000 .6000 .8000

X/C

.050 .0702 .0860
.100 .0823 .1030
.200 .0512 .0754
.300 .0431 .0600
.400 .0348 .0568 .0690
.500 .0304 .0495
.600 .0285 .0692 .0613
.700 .0270 .0630
.800 .0240 .0555
.900 .0176 .0340

RN/L (4) = 5.000 HAW/HT (1) = .950

MACH = 8.0220

PO = 1219.8

TO = 1393.5

HO = .10200

SECTION (1) WING

DEPENDENT VARIABLE H/HO

2Y/B .4000 .6000 .8000

X/C

.050 .0916 .1030
.100 .0952 .1030
.200 .0709 .0974
.300 .0493 .0670
.400 .0395 .0724 .1071
.500 .0343 .0848
.600 .0311 .0857 .0998
.700 .0287 .0799
.800 .0257 .0655
.900 .0209 .0457

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DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 30

OH14 B22C7F5M4V7W111 WING LOWER SURFACE (RQL403)

RN/L (4) = 5.000 HAM/HT (2) = .900 MACH = 8.0220 PO = 1218.8 TO = 1393.5 HO = .10200

SECTION (1) WING DEPENDENT VARIABLE H/HO

2Y/B .4000 .6000 .8000

X/C

.050 .0794
.100 .0828
.200 .0622
.300 .0434
.400 .0349
.500 .0303
.600 .0275
.700 .0254
.800 .0228
.900 .0195

RN/L (5) = 6.000 HAM/HT (1) = .850 MACH = 8.0440 PO = 1471.1 TO = 1400.5 HO = .11100

SECTION (1) WING DEPENDENT VARIABLE H/HO

2Y/B .4000 .5000 .8000

X/C

.050 .0939
.100 .0968
.200 .0739
.300 .0503
.400 .0417
.500 .0365
.600 .0335
.700 .0315
.800 .0285
.900 .0235

RN/L (5) = 6.000 HAM/HT (2) = .900 MACH = 8.0440 PO = 1471.1 TO = 1400.5 HO = .11100

SECTION (1) WING DEPENDENT VARIABLE H/HO

2Y/B .4000 .6000 .8000

X/C

.050 .0811
.100 .0839
.200 .0647
.300 .0448
.400 .0367
.500 .0322
.600 .0296
.700 .0279
.800 .0252

OH14 TABULATED SOURCE DATA
(ROLW03)
OH14 B22C7F5M4V7W111 WING LOWER SURFACE

DATE 09 JUL 76

RN/L (5) = 6.000 HAW/HT(2) = .900
SECTION (1) WING
2Y/B .4000 .6000 .8000
X/C
.900 .0208 .0702
RN/L (6) = 8.000 HAW/HT(1) = .850 MACH = 8.0810 PO = 2022.0 TO = 1395.1 HO = .12800

SECTION (1) WING
2Y/B .4000 .6000 .8000
X/C
.050 .0955
.100 .1023
.200 .0862
.300 .0500
.400 .0501
.500 .0459
.600 .0383
.700 .0333
.800 .0320
DEPENDENT VARIABLE H/HO
.1198
.1335
.1327
.1455
.1619
.1689
.1679
.1409
.0900

RN/L (5) = 8.000 HAW/HT(2) = .900 MACH = 8.0810 PO = 2022.0 TO = 1395.1 HO = .12800
SECTION (1) WING
2Y/B .4000 .6000 .8000
X/C
.050 .0927
.100 .0879
.200 .0749
.300 .0526
.400 .0439
.500 .0432
.600 .0342
.700 .0346
.800 .0337
DEPENDENT VARIABLE H/HO
.1035
.1142
.1087
.1174
.1302
.1582
.1417
.1204
.0777

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 32

OH14 B22C7F5M4V7M111 WING LOWER SURFACE

(RQLW03)

PN/L (7) = 10.000 HAM/HT(1) = .850 MACH = 8.1060 PO = 2530.9 TO = 1447.3 HO = .14300

SECTION (1) WING DEPENDENT VARIABLE H/HO

2Y/B .4000 .6000 .8000

X/C

| | | |
|------|-------|-------|
| .050 | .1200 | |
| .100 | .1188 | .1225 |
| .200 | .0939 | .1417 |
| .300 | .0847 | .1508 |
| .400 | .0547 | .1608 |
| .500 | .0507 | .1672 |
| .600 | .0443 | .1615 |
| .700 | .0434 | .1705 |
| .800 | .0310 | .1460 |
| .900 | .0470 | .0921 |

PN/L (7) = 10.000 HAM/HT(2) = .900 MACH = 8.1060 PO = 2530.9 TO = 1447.3 HO = .14300

SECTION (1) WING DEPENDENT VARIABLE H/HO

2Y/B .4000 .6000 .8000

X/C

| | | |
|------|-------|-------|
| .050 | .1022 | |
| .100 | .1016 | .1057 |
| .200 | .0814 | .1208 |
| .300 | .0567 | .1216 |
| .400 | .0479 | .1276 |
| .500 | .0446 | .1325 |
| .600 | .0390 | .1295 |
| .700 | .0426 | .1428 |
| .800 | .0448 | .1242 |
| .900 | .0414 | .0793 |

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 33

OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

(RCLS03) (21 JUN 76)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. YMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000
 BREF = 1290.3000 IN. ZMRP = .0000
 SCALE = .0060

PARAMETRIC DATA

ALPHA = 25.000 BETA = .000
 MACH = 8.000

PV/L (1) = 1.000 HAW/HT (1) = .850 MACH = 7.8030 PO = 224.18 TO = 1259.0 HO = .44000-01

SECTION (1) TOP

DEPENDENT VARIABLE H/HO

| X/L | .1700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| W.P. | | | | | | | | |
| 375.000 | .0112 | .0135 | .0171 | .0076 | .0048 | .0013 | | |
| 400.000 | | | | .0159 | .0111 | .0044 | | |
| 425.000 | .0085 | .0145 | | .0024 | .0021 | .0013 | | .0033 |
| 450.000 | | | | | | | | |
| 501.000 | .0081 | .0014 | .0023 | | | | | |

PV/L (2) = 1.000 HAW/HT (2) = .900 MACH = 7.8030 PO = 224.18 TO = 1259.0 HO = .44000-01

SECTION (1) TOP

DEPENDENT VARIABLE H/HO

| X/L | .1700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| W.P. | | | | | | | | |
| 375.000 | .0098 | .0119 | .0150 | .0067 | .0042 | .0012 | | |
| 400.000 | | | | .0139 | .0098 | .0039 | | |
| 425.000 | .0075 | .0128 | | .0021 | .0019 | .0012 | | .0029 |
| 450.000 | | | | | | | | |
| 501.000 | .0072 | .0012 | .0020 | | | | | |

PV/L (2) = 3.000 HAW/HT (1) = .850 MACH = 7.9590 PO = 720.71 TO = 1370.5 HO = .79000-01

SECTION (1) TOP

DEPENDENT VARIABLE H/HO

| X/L | .1700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| W.P. | | | | | | | | |
| 375.000 | .0140 | .0189 | .0226 | .0097 | .0052 | .0028 | | |
| 400.000 | | | | .0205 | .0167 | .0055 | | |
| 425.000 | .0083 | .0174 | | .0044 | .0037 | .0018 | | .0042 |
| 450.000 | | | | | | | | |
| 501.000 | .0139 | .0017 | .0041 | | | | | |

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DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 34

OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE (R0LS03)
 RN/L (2) = 3.000 HAW/HT (2) = .900 MACH = 7.9590 PO = 720.71 TO = 1370.5 HO = 9000-01

SECTION (1) TOP

| X/L | .1700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| W.P. | | | | | | | | |
| 375.000 | | .0124 | .0168 | .0200 | .0086 | .0046 | .0025 | |
| 400.000 | | .0074 | .0154 | | .0181 | .0148 | .0049 | |
| 425.000 | | | | | .0039 | .0033 | .0016 | .0038 |
| 450.000 | .0123 | .0015 | .0036 | | | | | |

RN/L (3) = 4.000 HAW/HT (1) = .850 MACH = 7.9960 PO = 977.05 TO = 1435.5 HO = 92000-01

SECTION (1) TOP

| X/L | .1700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| W.P. | | | | | | | | |
| 375.000 | | .0138 | .0201 | .0244 | .0111 | .0057 | .0036 | |
| 400.000 | | .0087 | .0173 | | .0216 | .0178 | .0069 | |
| 425.000 | | | | | .0055 | .0037 | .0015 | .0036 |
| 450.000 | .0154 | .0020 | .0045 | | | | | |

RN/L (3) = 4.000 HAW/HT (2) = .900 MACH = 7.9960 PO = 977.05 TO = 1435.5 HO = 92000-01

SECTION (1) TOP

| X/L | .1700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| W.P. | | | | | | | | |
| 375.000 | | .0123 | .0179 | .0217 | .0099 | .0050 | .0032 | |
| 400.000 | | .0078 | .0154 | | .0192 | .0158 | .0061 | |
| 425.000 | | | | | .0049 | .0033 | .0014 | .0032 |
| 450.000 | .0137 | .0018 | .0040 | | | | | |

RN/L (4) = 5.000 HAW/HT (1) = .850 MACH = 8.0220 PO = 1218.8 TO = 1393.5 HO = 10200

SECTION (1) TOP

| X/L | .1700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| W.P. | | | | | | | | |
| 375.000 | | .0146 | .0219 | .0258 | .0122 | .0057 | .0034 | |
| 400.000 | | .0088 | .0179 | | .0228 | .0201 | .0086 | |
| 425.000 | | | | | .0057 | .0042 | .0016 | .0043 |
| 450.000 | .0168 | .0020 | .0049 | | | | | |

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 35

OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE (RCLS03)

PN/L (4) = 5.000 MAW/HT (2) = .900 MACH = 8.0220 PO = 1218.8 TO = 1393.5 HO = .10200

SECTION 11TOP

DEPENDENT VARIABLE H/HO

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.

375.000
400.000
425.000
450.000
500.000

PN/L (5) = 5.000 MAW/HT (1) = .850 MACH = 8.0440 PO = 1471.1 TO = 1400.5 HO = .11100

SECTION 11TOP

DEPENDENT VARIABLE H/HO

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.

375.000
400.000
425.000
450.000
500.000

PN/L (5) = 6.000 MAW/HT (2) = .900 MACH = 8.0440 PO = 1471.1 TO = 1400.5 HO = .11100

SECTION 11TOP

DEPENDENT VARIABLE H/HO

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.

375.000
400.000
425.000
450.000
500.000

PN/L (6) = 8.000 MAW/HT (1) = .850 MACH = 8.0810 PO = 2022.0 TO = 1395.1 HO = .12800

SECTION 11TOP

DEPENDENT VARIABLE H/HO

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.

375.000
400.000
425.000
450.000
500.000

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 36

OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE (ROLS03)

RN/L (6) = 8.000 HAW/HT(2) = .900 MACH = 8.0810 PO = 2022.0 TO = 1395.1 HO = .12800

SECTION (1) TOP DEPENDENT VARIABLE H/HO

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

M.P.

375.000 .0133 .0220 .0244 .0126 .0078 .0038

400.000 .0085 .0163 .0207 .0207 .0228 .0127

425.000 .0193 .0024 .0056 .0063 .0033 .0011 .0148

450.000 .0024 .0056 .0063 .0033 .0011

RN/L (7) = 10.000 HAW/HT(1) = .850 MACH = 8.1060 PO = 2530.9 TO = 1447.3 HO = .14300

SECTION (1) TOP DEPENDENT VARIABLE H/HO

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

M.P.

375.000 .0154 .0251 .0276 .0147 .0085 .0044

400.000 .0093 .0189 .0230 .0230 .0278 .0158

425.000 .0241 .0030 .0054 .0067 .0030 .0024 .0276

450.000 .0030 .0054 .0067 .0030 .0024

RN/L (7) = 10.000 HAW/HT(2) = .900 MACH = 8.1060 PO = 2530.9 TO = 1447.3 HO = .14300

SECTION (1) TOP DEPENDENT VARIABLE H/HO

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

M.P.

375.000 .0137 .0222 .0245 .0130 .0079 .0039

400.000 .0082 .0158 .0204 .0204 .0246 .0150

425.000 .0214 .0027 .0048 .0059 .0026 .0021 .0245

450.000 .0027 .0048 .0059 .0026 .0021

OH14 TABULATED SOURCE DATA

OH14 B22C7F5H4V7W11: ORBITER FUSELAGE CHINE (R0LM03) (21 JUN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000
 BREF = 1230.3000 IN. ZMRP = .0000
 SCALE = 0.060

R1/L (1) = 1.000 HAW/HT(1) = .850 MACH = 7.8030 P0 = 224.18 T0 = 1259.0 H0 = .44000-01

SECTION (1) CHINE DEPENDENT VARIABLE H/H0

ANGLE 30.0000

X L
 .100 .1053
 .150 .0877
 .200 .0595

R1/L (2) = 1.000 HAW/HT(2) = .900 MACH = 7.8030 P0 = 224.18 T0 = 1259.0 H0 = .44000-01

SECTION (1) CHINE

ANGLE 30.0000

X/L
 .100 .0918
 .150 .0765
 .200 .0520

R1/L (2) = 3.000 HAW/HT(1) = .850 MACH = 7.9590 P0 = 720.71 T0 = 1370.5 H0 = .79000-01

SECTION (1) CHINE

ANGLE 30.0000

X/L
 .100 .1134
 .150 .0957
 .200 .0656

R1/L (2) = 3.000 HAW/HT(2) = .900 MACH = 7.9590 P0 = 720.71 T0 = 1370.5 H0 = .79000-01

SECTION (1) CHINE

ANGLE 30.0000

Y L
 .100 .1009
 .150 .0839
 .200 .0577

PARAMETRIC DATA

ALPHA = 25.000 BETA = .000
 MACH = 8.000

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 38

OH14 B2C7F5H4V7H111 ORBITER FUSELAGE CHINE (RQM03)

RN/L (3) = 4.000 HAM/HT (1) = .850 MACH = 7.9960 PO = 977.05 TO = 1435.5 MO = .92000-01

SECTION (1) CHINE
DEPENDENT VARIABLE H/HO

ANGLE 30.0000

X/L
.100 .1210
.150 .0994
.200 .0672

RN/L (3) = 4.000 HAM/HT (2) = .900 MACH = 7.9960 PO = 977.05 TO = 1435.5 MO = .92000-01

SECTION (1) CHINE
DEPENDENT VARIABLE H/HO

ANGLE 30.0000

X/L
.100 .1059
.150 .0873
.200 .0593

RN/L (4) = 5.000 HAM/HT (1) = .850 MACH = 8.0220 PO = 1218.8 TO = 1393.5 MO = .10200

SECTION (1) CHINE
DEPENDENT VARIABLE H/HO

ANGLE 30.0000

X/L
.100 .1256
.150 .1032
.200 .0692

RN/L (4) = 5.000 HAM/HT (2) = .900 MACH = 8.0220 PO = 1218.8 TO = 1393.5 MO = .10200

SECTION (1) CHINE
DEPENDENT VARIABLE H/HO

ANGLE 30.0000

X/L
.100 .1094
.150 .0902
.200 .0608

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 39

OH14 B22C7F5M4V7M111 ORBITER FUSELAGE CHINE (PQLM03)

PN/L (5) = 6.000 HAW/HT(1) = .850 MACH = 8.0440 PO = 1471.1 TO = 1400.5 HO = .11100

SECTION (1) CHINE

DEPENDENT VARIABLE H/HO

ANGLE 30.0000

X/L

.100 .1304
.150 .1285
.200 .1070

PN/L (5) = 6.000 HAW/HT(2) = .900 MACH = 8.0440 PO = 1471.1 TO = 1400.5 HO = .11100

SECTION (1) CHINE

DEPENDENT VARIABLE H/HO

ANGLE 30.0000

Y

.100 .1132
.150 .1046
.200 .1032

PN/L (5) = 8.000 HAW/HT(1) = .850 MACH = 8.0810 PO = 2022.0 TO = 1395.1 HO = .12800

SECTION (1) CHINE

DEPENDENT VARIABLE H/HO

ANGLE 30.0000

Y

.100 .1305
.150 .1109
.200 .1079

PN/L (5) = 8.000 HAW/HT(2) = .900 MACH = 8.0810 PO = 2022.0 TO = 1395.1 HO = .12800

SECTION (1) CHINE

DEPENDENT VARIABLE H/HO

ANGLE 30.0000

Y/L

.100 .1128
.150 .1053
.200 .1057

ORIGINAL PAGE IS
OF FOUR QUALITY

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 40

OH14 822C75M4V7W111 ORBITER FUSELAGE CHINE (RCLM03)

RN/L (7) = 10.000 HAW/WT (1) = .850 MACH = 8.1060 PO = 2530.9 TO = 1447.3 HO = .14300

SECTION (1) CHINE

DEPENDENT VARIABLE H/HO

ANGLE 30.0000

X/L

.100 .1727
.150 .1112
.200 .0760

RN/L (7) = 10.000 HAW/WT (2) = .900 MACH = 8.1060 PO = 2530.9 TO = 1447.3 HO = .14300

SECTION (1) CHINE

DEPENDENT VARIABLE H/HO

ANGLE 30.0000

X/L

.100 .1144
.150 .0964
.200 .0665

DATE 09 JUL 78

OH14 TABULATED SOURCE DATA

PAGE

OH14 B22C7F5H4V7W111 FUSELAGE LOWER SURFACE

(BOLB04) (21 JUN 78

REFERENCE DATA

SPLF = 2000.0000 SQ.FT. XMRP = .0000 IN.
LRF = 1200.0000 IN. YMRP = .0000
BRF = 1200.0000 IN. ZMRP = .0000
SCALE = .0000

PARAMETRIC DATA

ALPHA = 30.000 BETA = .000
MACH = 8.000

PNL (1) = 1.000 HAW/HIT (1) = .850 MACH = 7.8050 PO = 228.40 TO = 1269.0 HO = .440000-01

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

B.P. .000017.0000

X L
.025 .1792
.050 .1355
.075 .1255
.100 .1200
.125 .1180
.150 .1160
.175 .1140
.200 .1120
.225 .1100
.250 .1080
.275 .1060
.300 .1040
.325 .1020
.350 .1000
.375 .0980
.400 .0960
.425 .0940
.450 .0920
.475 .0900
.500 .0880
.525 .0860
.550 .0840
.575 .0820
.600 .0800
.625 .0780
.650 .0760
.675 .0740
.700 .0720
.725 .0700
.750 .0680
.775 .0660
.800 .0640
.825 .0620
.850 .0600
.875 .0580
.900 .0560
.925 .0540
.950 .0520
.975 .0500
1.000 .0480

PNL (1) = 1.000 HAW/HIT (2) = .900 MACH = 7.8050 PO = 228.40 TO = 1269.0 HO = .440000-01

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

B.P. .000017.0000

X L
.025 .1517
.050 .1317
.075 .1217
.100 .1117
.125 .1017
.150 .0917
.175 .0817
.200 .0717
.225 .0617
.250 .0517
.275 .0417
.300 .0317
.325 .0217
.350 .0117
.375 .0017
.400 .0000

OH14 TABULATED SOURCE DATA
OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE
(RQLB04)

DATE 09 JUL 76

RN/L (1) = 1.00C HAW/HT(2) = .900

SECTION (1) BOTTOM
DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

| | |
|-------|-------|
| X/L | |
| .150 | ..... |
| .175 | .0599 |
| .200 | .0553 |
| .250 | .0489 |
| .300 | .0443 |
| .350 | .0351 |
| .400 | .0436 |
| .450 | .0395 |
| .500 | .0332 |
| .550 | ..... |
| .600 | .0339 |
| .650 | .0327 |
| .700 | ..... |
| .750 | .0305 |
| .800 | .0244 |
| .850 | .0284 |
| .900 | .0243 |
| .950 | .0237 |
| 1.000 | .0175 |
| 1.040 | .0135 |

RN/L (2) = 3.00C HAW/HT(1) = .850 MACH = 7.9540 PO = 596.45 TO = 1355 I HO = .78000-C:

SECTION (1) BOTTOM
DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

| | |
|------|-------|
| X/L | |
| .025 | .1859 |
| .050 | .1315 |
| .075 | .1181 |
| .100 | .1029 |
| .125 | .0904 |
| .150 | ..... |
| .175 | .0753 |
| .200 | .0554 |
| .250 | .0539 |
| .300 | .0524 |
| .350 | .0408 |
| .400 | .0470 |
| .450 | .0454 |
| .500 | .0450 |
| .550 | ..... |
| .600 | .0397 |
| .650 | .0383 |

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 43

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

(RQLB04)

RN/L (2) = 3.000 HAM/HT (1) = .850

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

X/L
.7000368
.750 .0382
.800 .0312 .0328
.850 .0408
.900 .0370 .0324
.950 .0315
1.000 .0275 .0334
1.040 .0222

RN/L (2) = 3.000 HAM/HT (2) = .900 MACH = 7.9540 P0 = 196.45 T0 = 1355.1 H0 = .78000-01

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

X/L
.025 .0576
.050 .1123
.075 .1011
.100 .0883
.125 .0777
.150
.175 .0632
.200 .0320
.250 .0515
.300 .0453
.350 .0453 .0379
.400 .0453
.450 .0382
.500 .0389
.550
.600 .0343 .0408
.650 .0332
.700
.750 .0331
.800 .0271 .0284
.850 .0353
.900 .0321 .0281
.950 .0273
1.000 .0258 .0289
1.040 .0192

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 44

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE (POL804)

RN/L (3) = 4.000 HAW/HT (1) = .850 MACH = 7.9960 PO = 977.05 TO = 1427.4 HO = .91000-01

SECTION (1) BOTTOM DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

X/L
.025 .1893
.050 .1366
.075 .1238
.100 .1071
.125 .0940
.150
.175 .0753
.200 .0707
.250 .0629
.300 .0551
.350 .0420 .0466
.400 .0491
.450 .0479
.500 .0495 .0592
.550
.600 .0503 .0506
.650 .0546
.700
.750 .0715
.800 .0558 .0519
.850 .0846
.900 .0760 .0566
.950 .0668
1.000 .0615 .0532
1.040 .0493

RN/L (3) = 4.000 HAW/HT (2) = .900 MACH = 7.9960 PO = 977.05 TO = 1427.4 HO = .91000-01

SECTION (1) BOTTOM DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

X/L
.025 .1597
.050 .1159
.075 .1064
.100 .0923
.125 .0810
.150
.175 .0652
.200 .0612
.250 .0546
.300 .0478
.350 .0365 .0404
.400 .0427

DATE 09 JUL 75

CHI4 TABULATED SOURCE DATA

PAGE 5

CHI4 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE (RQLB04)

RN/L (3) = 4.000 HAW/HT(2) = .900

SECTION (1) BOTTOM

B.P. .0000117.0000

| X/L | |
|-------|-------|
| .450 | .0416 |
| .500 | .0435 |
| .550 | .0510 |
| .600 | .0437 |
| .650 | .0438 |
| .700 | .0474 |
| .750 | .0335 |
| .800 | .0820 |
| .850 | .0571 |
| .900 | .0731 |
| .950 | .0689 |
| 1.000 | .0580 |
| 1.050 | .0535 |
| 1.100 | .0462 |

RN/L (4) = 4.500 HAW/HT(1) = .850 MACH = 8.0080 PO = 1082.2 TO = 1423.5 HO = .96000-01

SECTION (1) BOTTOM

B.P. .0000117.0000

| X/L | |
|-------|-------|
| .025 | .1993 |
| .050 | .1409 |
| .075 | .0723 |
| .100 | .1099 |
| .125 | .0954 |
| .150 | .0800 |
| .175 | .0700 |
| .200 | .0613 |
| .225 | .0530 |
| .250 | .0475 |
| .275 | .0430 |
| .300 | .0390 |
| .325 | .0350 |
| .350 | .0310 |
| .375 | .0270 |
| .400 | .0230 |
| .425 | .0190 |
| .450 | .0150 |
| .475 | .0110 |
| .500 | .0070 |
| .525 | .0030 |
| .550 | .0000 |
| .575 | .0000 |
| .600 | .0000 |
| .625 | .0000 |
| .650 | .0000 |
| .675 | .0000 |
| .700 | .0000 |
| .725 | .0000 |
| .750 | .0000 |
| .775 | .0000 |
| .800 | .0000 |
| .825 | .0000 |
| .850 | .0000 |
| .875 | .0000 |
| .900 | .0000 |
| .925 | .0000 |
| .950 | .0000 |
| .975 | .0000 |
| 1.000 | .0000 |

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 45

OH14 B22C7F5M4V7H111 FUSELAGE LOWER SURFACE (RQLB04)

RN/L (4) = 4.500 HAW/HT (1) = .850

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

X/L

1.040 .0424

RN/L (4) = 4.500 HAW/HT (2) = .900 MACH = 8.0080 PO = 1082.2 TO = 1423.5 HO = .96000-01

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

X/L

.025 .1670
.050 .1204
.075 .1592
.100 .0946
.125 .0831
.150 .0411
.175 .0665
.200 .0663
.250 .0557
.300 .0490
.350 .0374
.400 .0435
.450 .0422
.500 .0430
.550 .0418
.600 .0421
.650 .0369
.700 .0524
.750 .0484
.800 .0623
.850 .0696
.900 .0442
.950 .0423
1.000 .0323

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 47

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE (RQLB04)

PN/L (5) = 5.000 HAW/HT(1) = .850 MACH = 8.0230 PO = 1230.6 TO = 1433.1 HO = .10200

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

S.P. .000017.0000

X'L
.025 .1580
.050 .1303
.075 .1195
.100 .1037
.125 .0913
.150 .0811
.175 .0723
.200 .0674
.225 .0639
.250 .0611
.275 .0590
.300 .0576
.325 .0566
.350 .0558
.375 .0554
.400 .0550
.425 .0547
.450 .0544
.475 .0541
.500 .0538
.525 .0535
.550 .0532
.575 .0529
.600 .0527
.625 .0524
.650 .0521
.675 .0518
.700 .0515
.725 .0512
.750 .0509
.775 .0506
.800 .0503
.825 .0500
.850 .0497
.875 .0494
.900 .0491
.925 .0488
.950 .0485
.975 .0482
1.000 .0479
1.040 .0476

PN/L (5) = 5.000 HAW/HT(2) = .900 MACH = 8.0230 PO = 1230.6 TO = 1433.1 HO = .10200

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

S.P. .000017.0000

X'L
.025 .1302
.050 .1112
.075 .1024
.100 .0931
.125 .0855
.150 .0789
.175 .0733
.200 .0687
.225 .0650
.250 .0619
.275 .0593
.300 .0570
.325 .0550
.350 .0537
.375 .0526
.400 .0516
.425 .0507
.450 .0498
.475 .0490
.500 .0482
.525 .0474
.550 .0466
.575 .0458
.600 .0450
.625 .0442
.650 .0434
.675 .0426
.700 .0418
.725 .0410
.750 .0402
.775 .0394
.800 .0386
.825 .0378
.850 .0370
.875 .0362
1.000 .0354
1.040 .0346

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 48

(RQLB04)

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

PN/L (5) = 5.000 HAW/HT (2) = .900

SECTION (1) BOTTOM DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

| X/L | |
|-------|-------|
| .450 | .0414 |
| .500 | .0449 |
| .550 | .0495 |
| .600 | .0523 |
| .650 | .0554 |
| .700 | .0600 |
| .750 | .0651 |
| .800 | .0719 |
| .850 | .0779 |
| .900 | .0831 |
| .950 | .0884 |
| 1.000 | .0914 |
| 1.043 | .0959 |

PN/L (6) = 5.500 HAW/HT (1) = .850 MACH = 8.0340 PO = 1350.0 TO = 1399.5 HC = .12600

SECTION (1) BOTTOM

B.P. .0000117.0000

| X/L | |
|-------|-------|
| .025 | .1904 |
| .050 | .1355 |
| .075 | .1234 |
| .100 | .1176 |
| .125 | .0942 |
| .150 | .0884 |
| .175 | .0715 |
| .200 | .0598 |
| .250 | .0422 |
| .300 | .0348 |
| .350 | .0293 |
| .400 | .0453 |
| .450 | .0491 |
| .500 | .0489 |
| .550 | .0539 |
| .600 | .0593 |
| .650 | .0654 |
| .700 | .0757 |
| .750 | .0864 |
| .800 | .0961 |
| .850 | .1032 |
| .900 | .1117 |
| .950 | .1210 |
| 1.000 | .1310 |

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 48

(ROLB04)

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

RM/L (6) = 5.500 HAW/HT(1) = .850

SECTION (1) BOTTOM

B.P. .000017.0000

X/L
1.040 .0674

RM/L (6) = 5.500 HAW/HT(2) = .900 MACH = 8.0340 P0 = 1350.0 T0 = 1399.5 H0 = .00600

SECTION (1) BOTTOM

B.P. .000017.0000

X/L
.025 .1591
.050 .152
.075 .153
.100 .153
.125 .0808
.150 .0841
.175 .0841
.200 .0841
.225 .0841
.250 .0841
.275 .0841
.300 .0841
.325 .0841
.350 .0841
.375 .0841
.400 .0841
.425 .0841
.450 .0841
.475 .0841
.500 .0841
.525 .0841
.550 .0841
.575 .0841
.600 .0841
.625 .0841
.650 .0841
.675 .0841
.700 .0841
.725 .0841
.750 .0841
.775 .0841
.800 .0841
.825 .0841
.850 .0841
.875 .0841
.900 .0841
.925 .0841
.950 .0841
.975 .0841
1.000 .0841

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 50

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE (RQLB04)

RN/L (7) = 6.000 HAW/HT (1) = .850 MACH = 8.0450 P0 = 1482.3 T0 = 1386.8 H0 = .11000

SECTION (1) BOTTOM DEPENDENT VARIABLE H/H0

B.P. .000017.0000

X/L
.025 .1677
.050 .1409
.075 .1288
.100 .1127
.125 .0986
.150
.175 .0780
.200 .0726
.250 .0647
.300 .0570
.350 .0469
.400 .0505
.450 .0437
.500 .0340
.550
.600 .0637
.650 .0554
.700
.750 .1062
.800 .0972
.850 .1250
.900 .1133
.950 .1000
1.000 .0931
1.040 .0701

RN/L (7) = 5.000 HAW/HT (2) = .900 MACH = 8.0450 P0 = 1482.3 T0 = 1386.8 H0 = .11000

SECTION (1) BOTTOM DEPENDENT VARIABLE H/H0

B.P. .000017.0000

X/L
.025 .1361
.050 .1134
.075 .1095
.100 .0922
.125 .0844
.150
.175 .0670
.200 .0624
.250 .0557
.300 .0491
.350 .0353
.400 .0445

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 5:

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

(POL804)

PN/L (7) = 6.000 HAW/HT (2) = .900

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

B.P. .000017.0000

X/L

.450 .0429
.500 .0465 .0522
.550
.600 .0548 .0474
.650 .0638
.700
.750 .0904 .0555
.800 .0829 .0900
.850 .051
.900 .0955 .0799
.950 .0805
1.000 .0797 .0684
1.050 .0632

PN/L (8) = 8.000 HAW/HT (1) = .850 MACH = 8.0810 PO = 2029.5 HO = 1435.8 HO = .02900

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

B.P. .000017.0000

X/L

.025 .2139
.050 .1496
.075 .1359
.100 .1188
.125 .1048
.150
.175 .0840
.200 .0784
.250 .0689
.300 .0593
.350 .0494 .0490
.400 .0532
.450 .0545
.500 .0509 .0647
.550
.600 .0775 .0621
.650 .0905
.700
.750 .1302 .0993
.800 .1205 .1188
.850 .1205
.900 .1295 .1170
.950 .1224
1.000 .1127 .0870

ORIGINAL PAGE 18
OF POOR QUALITY

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 52

(RQLR04)

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

RN/L (8) = 8.000 HAM/HT (1) = .850

SECTION (1) BOTTOM DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

X/L
1.040 .0866

RN/L (8) = 8.000 HAM/HT (2) = .900 MACH = 8.0810 PC = 2029.5 TO = 1435.8 HO = .12900

SECTION (1) BOTTOM DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

X/L
.025 .1751
.050 .1252
.075 .1152
.100 .1012
.125 .0835
.150
.175 .0721
.200 .0674
.250 .0532
.300 .0511
.350 .0349 .0421
.400 .0459
.450 .0470
.500 .0524 .0551
.550
.600 .0565 .0522
.650 .0773
.700
.750 .1100
.800 .1022 .0953
.850 .1341
.900 .1173 .0955
.950 .1040
1.000 .0950 .0743
1.040 .0741

OH14 TABULATED SOURCE DATA

(RQLB04)

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

HO = .14200

HO

= 1390.0

TO

= 2540.6

PO

= 8.1060

MACH

= .850

HAW/HT(1) =

RN/L (9) = 10.000

DEPENDENT VARIABLE H/HO

SECTION 1: BOTTOM

B.P. .000017.0000

X/L
 .025 .1984
 .050 .1611
 .075 .1440
 .100 .1248
 .125 .1100
 .150 .0900
 .175 .0891
 .200 .0825
 .225 .0795
 .250 .0611
 .275 .0552
 .300 .0542
 .325 .0532
 .350 .0532
 .375 .0560
 .400 .1665
 .425 .1692
 .450 .1682
 .475 .1722
 .500 .1481
 .525 .1482
 .550 .1482
 .575 .1482
 .600 .1517
 .625 .1336
 .650 .1249
 .675 .0882
 .700 .1040

HO = .14200

HO

= 1390.0

TO

= 2540.6

PC

= 8.1060

MACH

= .900

HAW/HT(2) =

RN/L (9) = 10.000

DEPENDENT VARIABLE H/HO

SECTION 2: BOTTOM

B.P. .000017.0000

X/L
 .025 .1533
 .050 .1340
 .075 .1206
 .100 .1092
 .125 .0923
 .150 .0799
 .175 .0702
 .200 .0602
 .225 .0523
 .250 .0354
 .275 .0470
 .300 .0450

DATE 09 JUL 76

ONLY TABULATED SOURCE DATA

PAGE 54

ONLY 822C7F5MMV7W111 FUSELAGE LOWER SURFACE

(RCLB04)

RN/L (9) = 10.000 MAX/HT (2) = .900

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

S.P. .000017.0000

| X/L | |
|-------|-------|
| .450 | .0455 |
| .500 | .0479 |
| .550 | .0479 |
| .600 | .0561 |
| .650 | .0599 |
| .700 | .0599 |
| .750 | .1229 |
| .800 | .1234 |
| .850 | .1625 |
| .900 | .1555 |
| .950 | .168 |
| 1.000 | .1049 |
| 1.050 | .0792 |

DATE 03 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 56

OH14 B22C7F5M4V7M111 WING LOWER SURFACE (RQLW04)

RE/L (2) = 3.000 HAW/HT (1) = .850 MACH = 7.9540 PO = 696.45 TO = 1355.1 HO = .78000-0:

SECTION (1) WING DEPENDENT VARIABLE H/HO

2Y/B .4000 .6000 .8000

X/C

.050 .0865
.100 .0880 .1065
.200 .0678 .0977
.300 .0475 .0823
.400 .0387 .0747 .0796
.500 .0343 .0702
.600 .0315 .0659 .0619
.700 .0285 .0595
.800 .0254 .0547
.900 .0203 .0345

RE/L (2) = 3.000 HAW/HT (2) = .900 MACH = 7.9540 PO = 696.45 TO = 1355.1 HO = .78000-0:

SECTION (1) WING DEPENDENT VARIABLE H/HO

2Y/B .4000 .6000 .8000

X/C

.050 .0739
.100 .0753 .0914
.200 .0584 .0838
.300 .0410 .0707
.400 .0337 .0641 .0686
.500 .0296 .0603
.600 .0273 .0568 .0535
.700 .0247 .0513
.800 .0221 .0462
.900 .0175 .0299

RE/L (3) = 4.000 HAW/HT (1) = .850 MACH = 7.9960 PO = 977.05 TO = 1427.4 HO = .91000-0:

SECTION (1) WING DEPENDENT VARIABLE H/HO

2Y/B .4000 .6000 .8000

X/C

.050 .0931
.100 .0962 .1153
.200 .0731 .1059
.300 .0536 .0894
.400 .0439 .0829 .0852
.500 .0398 .0806
.600 .0387 .0771 .0663
.700 .0373 .0710
.800 .0342 .0521

OH14 TABULATED SOURCE DATA

OH14 922C7F5M4V7W111 WING LOWER SURFACE (POLW04)

DATE 09 JUL 76

PV/L (3) = 4.000 HAW/HT (1) = .850

SECTION (1) WING DEPENDENT VARIABLE H/HO

2V/B .4000 .6000 .8000

X/C
.900 .0289 .0409

PV/L (3) = 4.000 HAW/HT (2) = .900 MACH = 7.9960 PO = 977.05 TO = 1427.4 HO = .91000-01

SECTION (1) WING DEPENDENT VARIABLE H/HO

2V/B .4000 .6000 .8000

X/C
.950 .0395 .0389
.900 .0324 .0307
.850 .0255 .0240
.800 .0191 .0176
.750 .0131 .0116
.700 .0075 .0060
.650 .0021 .0006
.600 .0000 .0000
.550 .0000 .0000
.500 .0000 .0000
.450 .0000 .0000
.400 .0000 .0000

PV/L (4) = 4.500 HAW/HT (1) = .850 MACH = 8.0080 PO = 1082.2 TO = 1423.5 HO = .95000-01

SECTION (1) WING DEPENDENT VARIABLE H/HO

2V/B .4000 .6000 .8000

X/C
.950 .0335 .0330
.900 .0270 .0265
.850 .0205 .0200
.800 .0140 .0135
.750 .0075 .0070
.700 .0010 .0005
.650 .0000 .0000
.600 .0000 .0000
.550 .0000 .0000
.500 .0000 .0000
.450 .0000 .0000
.400 .0000 .0000

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 58

OH14 B22C7F5M4V7W111 WING LOWER SURFACE (RDLW04)

PN/L (4) = 4.500 HAW/HT (2) = .900 MACH = 8.0080 PO = 1082.2 TO = 1423.5 HO = .95000-01

DEPENDENT VARIABLE H/HO

SECTION (1) WING

2Y/B .4000 .6000 .8000

X/C

.050 .0798
.100 .0829 .0968
.200 .0636 .0882
.300 .0453 .0762
.400 .0372 .0741 .0756
.500 .0330 .0778
.600 .0312 .0774 .0583
.700 .0289 .0716
.800 .0262 .0454
.900 .0218 .0390

PN/L (5) = 5.000 HAW/HT (1) = .850 MACH = 8.0230 PO = 1230.6 TO = 1433.1 HO = .10200

DEPENDENT VARIABLE H/HO

SECTION (1) WING

2Y/B .4000 .6000 .8000

X/C

.050 .0750
.100 .0917 .1116
.200 .0731 .0985
.300 .0532 .0858
.400 .0458 .0864 .0930
.500 .0440 .0963
.600 .0454 .0979 .0694
.700 .0474 .0913
.800 .0459 .0543
.900 .0405 .0505

PN/L (5) = 5.000 HAW/HT (2) = .900 MACH = 8.0230 PO = 1230.6 TO = 1433.1 HO = .10200

DEPENDENT VARIABLE H/HO

SECTION (1) WING

2Y/B .4000 .6000 .8000

X/C

.050 .0632
.100 .0763 .0953
.200 .0629 .0839
.300 .0462 .0729
.400 .0396 .0732 .0799
.500 .0381 .0817
.600 .0401 .0833 .0598
.700 .0410 .0780
.800 .0338 .0469

DATE 09 JUL 75

OH14 TABULATED SOURCE DATA

PAGE 59

(RGLW04)

OH14 B22L775M4V7W111 WING LOWER SURFACE

RN/L (5) = 5.000 HAW/HT (2) = .900

SECTION 1 (1) WING

DEPENDENT VARIABLE H/HO

2Y/B .4000 .5000 .8000

X/C

.900 .0351 .0436

RN/L (6) = 5.500 HAW/HT (1) = .850 MACH = 8.0340 P0 = 1350.0 T0 = 1399.5 H0 = .10600

SECTION 1 (1) WING

DEPENDENT VARIABLE H/HO

2Y/B .4000 .5000 .8000

X/C

.050 .0826
.100 .0819
.200 .0788
.300 .0694
.400 .0594
.500 .0475
.600 .0329
.700 .0135
.800 .0032
.900 .0034

RN/L (6) = 5.500 HAW/HT (2) = .900 MACH = 8.0340 P0 = 1350.0 T0 = 1399.5 H0 = .10600

SECTION 1 (1) WING

DEPENDENT VARIABLE H/HO

2Y/B .4000 .5000 .8000

X/C

.050 .0759
.100 .0835
.200 .0936
.300 .0989
.400 .0988
.500 .0921
.600 .0719
.700 .0439
.800 .0211
.900 .0039

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 60

OH14 B2C7F5M4V7W111 WING LOWER SURFACE (RQLW04)
 PN/L (7) = 6.000 HAW/HT (1) = .850 MACH = 8.0450 PO = 1482.3 TO = 1386.8 HO = .11000
 DEPENDENT VARIABLE H/HO

SECTION (1) WING

2Y/B .4000 .6000 .8000

X/C

.050 .0907
 .100 .0366 .1234
 .200 .0779 .1261
 .300 .0558 .1069
 .400 .0470 .1205 .1098
 .500 .0442 .1318
 .600 .0469 .1557 .0922
 .700 .0475 .1428
 .800 .0458 .0833
 .900 .0423 .0774

PN/L (7) = 6.000 HAW/HT (2) = .900 MACH = 8.0450 PO = 1482.3 TO = 1386.8 HO = .11000

SECTION (1) WING

2Y/B .4000 .6000 .8000

X/C

.050 .0766
 .100 .0818 .1044
 .200 .0566 .1036
 .300 .0479 .0868
 .400 .0404 .0972 .0935
 .500 .0380 .1067
 .600 .0403 .1300 .0787
 .700 .0408 .1198
 .800 .0394 .0715
 .900 .0365 .0661

PN/L (8) = 6.000 HAW/HT (1) = .850 MACH = 8.0810 PO = 2029.5 TO = 1435.8 HO = .12900

SECTION (1) WING

2Y/B .4000 .6000 .8000

X/C

.050 .0959
 .100 .1041 .1378
 .200 .0845 .1323
 .300 .0648 .1390
 .400 .0577 .1459 .1254
 .500 .0508 .1555
 .600 .0677 .1819 .1214
 .700 .0743 .1735
 .800 .0757 .1234

OH14 TABULATED SOURCE DATA

OH14 822C7F5M4V7W111 WING LOWER SURFACE (ROLLW04)
 .900 MACH = 8.1060 P0 = 2540.6 T0 = 1390.0 W0 = .14200

RN/L (9) = 10.000 HAW/HT (2) =

DEPENDENT VARIABLE H/H0

SECTION (1) IN IN

27/B .4000 .6000 .8000

X/C

| | | | |
|------|------------|-------|-------|
| .050 | .1190 | | |
| .100 | .1593 | .1982 | |
| .200 | .1658 | .1815 | |
| .300 | .1695 | .1685 | |
| .400 | .1375 | .1575 | .1783 |
| .500 | .1314 | .1484 | |
| .600 | .1491 | .1438 | .1759 |
| .700 | .1395 | .1555 | |
| .800 | .1240..... | | .1386 |
| .900 | .0939 | .0894 | |

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 63

OH14 B22C7F5M4V7H111 FUSELAGE UPPER SURFACE

(PQL504) (21 JUN 76)

REFERENCE DATA

XREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 YREF = 1290.3000 IN. YMRP = .0000
 ZREF = 1290.3000 IN. ZMRP = .0000
 SCALE = .0060

P1 = 1 = 1.000 HAW/HT(1) = .950 MACH = 7.8050 P0 = 228.40 T0 = 1268.0 H0 = .44000-01

SECTION 111TOP

DEPENDENT VARIABLE H/H0

X = .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

Y =

.0129 .0108 .0063 .0039 .0013
 .0142 .0135 .0077 .0021
 .0089 .0018 .0023 .0031 .0020 .0019 .0022

P2 = 2 = 1.000 HAW/HT(2) = .900 MACH = 7.8050 P0 = 228.40 T0 = 1268.0 H0 = .44000-01

SECTION 111TOP

DEPENDENT VARIABLE H/H0

X = .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

Y =

.0110 .0093 .0054 .0033 .0011
 .0074 .0134 .0122 .0116 .0066 .0018
 .0077 .0015 .0020 .0027 .0017 .0017 .0019

P3 = 3 = 3.000 HAW/HT(3) = .850 MACH = 7.9540 P0 = 696.45 T0 = 1355.1 H0 = .78000-01

SECTION 111TOP

DEPENDENT VARIABLE H/H0

X = .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

Y =

.0138 .0143 .0058 .0022 .0024
 .0087 .0181 .0184 .0159 .0093 .0022
 .0101 .0019 .0027 .0020 .0029 .0031 .0014

PARAMETRIC DATA

ALPHA = 30.000 BETA = .000
 MACH = 8.000

DATE 09 JUL 75

OH14 TABULATED SOURCE DATA

PAGE 64

OH14 B22C7F5M4V7M111 FUSELAGE UPPER SURFACE (RQL504)

RN/L (2) = 3.000 HAW/HT (2) = .900 MACH = 7.9540 PO = 696.45 TO = 1355.1 HO = .78000-01

SECTION (1) TOP

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.

375.000 .0120 .0124 .0160 .0051 .0019 .0021
 400.000 .0076 .0157 .0139 .0081 .0019 .0012
 425.000 .0087 .0016 .0023 .0018 .0025 .0027
 501.000 .0087 .0016 .0023 .0018 .0025 .0027

RN/L (3) = 4.000 HAW/HT (1) = .850 MACH = 7.9960 PO = 977.05 TO = 1427.4 HO = .91000-01

SECTION (1) TOP

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.

375.000 .0147 .0156 .0198 .0066 .0024 .0027
 400.000 .0092 .0188 .0175 .0113 .0031 .0023
 425.000 .0113 .0020 .0030 .0030 .0034 .0038
 501.000 .0113 .0020 .0030 .0030 .0034 .0038

RN/L (3) = 4.000 HAW/HT (2) = .900 MACH = 7.9960 PO = 977.05 TO = 1427.4 HO = .91000-01

SECTION (1) TOP

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.

375.000 .0128 .0137 .0173 .0058 .0021 .0023
 400.000 .0080 .0164 .0153 .0099 .0027 .0021
 425.000 .0099 .0018 .0025 .0026 .0030 .0034
 501.000 .0099 .0018 .0025 .0026 .0030 .0034

RN/L (4) = 4.500 HAW/HT (1) = .850 MACH = 8.0080 PO = 1082.2 TO = 1423.5 HO = .96000-01

SECTION (1) TOP

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.

375.000 .0150 .0150 .0203 .0070 .0032 .0020
 400.000 .0093 .0193 .0185 .0116 .0026 .0024
 425.000 .0093 .0193 .0185 .0116 .0026 .0024
 501.000 .0093 .0193 .0185 .0116 .0026 .0024

DATE 29 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 65

PNL (4) = 4.500 HAW/HT(2) = .900 MACH = 8.0380 PO = 1082.2 TO = 1423.5 HO = .96000-01
 OH14 B22C7F5H4V7W111 FUSELAGE UPPER SURFACE (R0LS04)

SECTION (1) TOP

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250
 W.P.
 375.000
 400.000
 425.000
 450.000
 475.000
 500.000

.0131 .0140 .0178
 .0081 .0168
 .0141 .0015 .0031
 .0062 .0028 .0017
 .0162 .0102 .0022
 .0026 .0030 .0033
 .0021

PNL (5) = 5.000 HAW/HT(1) = .850 MACH = 8.0230 PO = 1230.6 TO = 1433.1 HO = .10200

SECTION (1) TOP

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250
 W.P.
 375.000
 400.000
 425.000
 450.000
 475.000
 500.000

.0137 .0154 .0190
 .0089 .0175
 .0118 .0019 .0041
 .0070 .0026 .0019
 .0169 .0120 .0028
 .0028 .0033 .0035
 .0024

PNL (5) = 5.000 HAW/HT(2) = .900 MACH = 8.0230 PO = 1230.6 TO = 1433.1 HO = .10200

SECTION (1) TOP

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250
 W.P.
 375.000
 400.000
 425.000
 450.000
 475.000
 500.000

.0120 .0134 .0156
 .0078 .0153
 .0103 .0017 .0036
 .0061 .0023 .0017
 .0147 .0105 .0024
 .0025 .0029 .0030
 .0021

PNL (6) = 5.500 HAW/HT(1) = .850 MACH = 8.0340 PO = 1350.0 TO = 1399.5 HO = .10600

SECTION (1) TOP

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250
 W.P.
 375.000
 400.000
 425.000
 450.000
 475.000
 500.000

.0141 .0159 .0198
 .0090 .0182
 .0165 .0020 .0045
 .0072 .0032 .0019
 .0175 .0130 .0022
 .0032 .0039 .0033
 .0022

DATE 29 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 66

OH14 B22C7F5M4V7M111 FUSELAGE UPPER SURFACE (RQLS04)

P/W L (6) = 5.500 HAW/HT (2) = .900 MACH = 8.0340 PO = 1350.0 TO = 1399.5 HO = .10600

SECTION (1) TOP

| X/L | .1700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| W.P. | | | | | | | | |
| 375.000 | | .0123 | .0139 | .0172 | .0063 | .0028 | .0017 | |
| 400.000 | | .0078 | .0159 | | .0153 | .0113 | .0020 | |
| 425.000 | | | | | .0028 | .0034 | .0029 | .0019 |
| 450.000 | .0144 | .0018 | .0039 | | | | | |

P/W L (7) = 6.000 HAW/HT (1) = .850 MACH = 8.0450 PO = 1482.3 TO = 1386.8 HO = .11000

SECTION (1) TOP

| X/L | .1700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| W.P. | | | | | | | | |
| 375.000 | | .0153 | .0172 | .0206 | .0078 | .0031 | .0020 | |
| 400.000 | | .0091 | .0191 | | .0187 | .0140 | .0031 | |
| 425.000 | | .0022 | .0051 | | .0040 | .0025 | .0024 | .0028 |
| 450.000 | .0127 | | | | | | | |

P/W L (7) = 6.000 HAW/HT (2) = .900 MACH = 8.0450 PO = 1482.3 TO = 1386.8 HO = .11000

SECTION (1) TOP

| X/L | .1700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| W.P. | | | | | | | | |
| 375.000 | | .0133 | .0150 | .0180 | .0068 | .0027 | .0017 | |
| 400.000 | | .0079 | .0166 | | .0163 | .0122 | .0027 | |
| 425.000 | | | | | .0035 | .0022 | .0021 | .0024 |
| 450.000 | .0110 | .0020 | .0044 | | | | | |

P/W L (9) = 8.000 HAW/HT (1) = .850 MACH = 8.0810 PO = 2029.5 TO = 1435.8 HO = .12900

SECTION (1) TOP

| X/L | .1700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| W.P. | | | | | | | | |
| 375.000 | | .0158 | .0177 | .0218 | .0088 | .0039 | .0024 | |
| 400.000 | | .0099 | .0191 | | .0210 | .0173 | .0044 | |
| 425.000 | | .0025 | .0060 | | .0041 | .0022 | .0026 | .0043 |
| 450.000 | .0143 | | | | | | | |

CHI4 TABULATED SOURCE DATA

CHI4 B22C-F5M47W111 FUSELAGE UPPER SURFACE (POL504)

DATE 09 JUL 76

REYNOLDS (8) = 8.000 HAW/HT (2) = .900 MACH = 8.081.0 PO = 2029.5 TO = 1435.8 HC = .12900

SECTION 1:1 TOP DEPENDENT VARIABLE H/HO

| Y | 1.700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
|---------|-------|-------|-------|-------|-------|---------------|-------|--------|
| W.P. | | | | | | | | |
| 375.000 | .0138 | .0155 | | .0191 | .0077 | .0034 | .0021 | |
| 400.000 | | | | | .0183 | .0151 | .0078 | .0038 |
| 425.000 | .0124 | .0022 | .0052 | | .0036 | .0019 | .0023 | |
| 450.000 | | | | | .950 | MACH = 8.1050 | PO = | |
| 500.000 | | | | | | | | .14200 |

SECTION 1:1 TOP DEPENDENT VARIABLE H/HO

| Y | 1.700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
|---------|-------|-------|-------|-------|-------|---------------|-------|--------|
| W.P. | | | | | | | | |
| 375.000 | .0160 | .0192 | | .0230 | .0106 | .0053 | .0028 | |
| 400.000 | | | | | .0217 | .0247 | .0072 | .0047 |
| 425.000 | .0221 | .0053 | .0065 | | .0050 | .0020 | .0018 | |
| 450.000 | | | | | .900 | MACH = 8.1050 | PO = | |
| 500.000 | | | | | | | | .14200 |

SECTION 1:1 TOP DEPENDENT VARIABLE H/HO

| Y | 1.700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| W.P. | | | | | | | | |
| 375.000 | .0139 | .0147 | | .0139 | .0032 | .0046 | .0024 | |
| 400.000 | | | | | .0189 | .0215 | .0061 | .0041 |
| 425.000 | .0191 | .0023 | .0057 | | .0044 | .0018 | .0016 | |
| 450.000 | | | | | | | | |
| 500.000 | | | | | | | | |

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 58

OH14 B22C7F5M4V7H111 ORBITER FUSELAGE CHINE

(R0LH04) (21 JUN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XPRP = .0000 IN.
LREF = 1290.3000 IN. YPRP = .0000
BREF = 1290.3000 IN. ZPRP = .0000
SCALE = .0560

R0L (1) = 1.000 HAW/HT (1) = .850 MACH = 7.8050 P0 = 228.40 T0 = 1268.0 H0 = .44000-01

SECTION 1 CHINE

ANGLE 30.0000

X/L
.100 .1114
.150 .0951
.200 .0674

R0L (2) = 1.000 HAW/HT (2) = .900 MACH = 7.8050 P0 = 228.40 T0 = 1268.0 H0 = .44000-01

SECTION 1 CHINE

ANGLE 30.0000

X/L
.100 .0951
.150 .0813
.200 .0578

R0L (2) = 3.000 HAW/HT (1) = .850 MACH = 7.9540 P0 = 696.45 T0 = 1355.1 H0 = .78000-01

SECTION 1 CHINE

ANGLE 30.0000

X/L
.100 .1184
.150 .1011
.200 .0721

R0L (2) = 3.000 HAW/HT (2) = .900 MACH = 7.9540 P0 = 696.45 T0 = 1355.1 H0 = .78000-01

SECTION 1 CHINE

ANGLE 30.0000

X/L
.100 .1013
.150 .0867
.200 .0581

PARAMETRIC DATA

ALPHA = 30.000 BETA = .000
MACH = 8.000

CHINA TABULATED SOURCE DATA
CHINA B22C75M47W111 ORBITER FUSELAGE CHINE

DATE 09 JUL 76

(RQLMOW)
H0 = 1427.4 H0 = 91000-01

PO = 977.05 TO = 1427.4 H0 = 91000-01

DEPENDENT VARIABLE M/HO

SECTION 1 CHINE

ANGLE 30.0000

1.000
1.000
1.000
1.000

SECTION 2 CHINE

ANGLE 30.0000

1.000
1.000
1.000
1.000

SECTION 3 CHINE

ANGLE 30.0000

1.000
1.000
1.000
1.000

SECTION 4 CHINE

ANGLE 30.0000

1.000
1.000
1.000
1.000

ORIGINAL PAGE 1
DE POOR QUALITY

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 70

OH14 B22C7F5M4V7W111 ORBITER FUSELAGE CHINE (RQLM04)

RN/L (5) = 5.000 HAW/HT(1) = .850 MACH = 8.0230 PO = 1230.6 TO = 1433.1 HO = .10200

SECTION (1) CHINE

DEPENDENT VARIABLE H/HO

ANGLE 30.0000

X/L
.100 .1195
.150 .1032
.200 .0714

RN/L (5) = 5.000 HAW/HT(2) = .900 MACH = 8.0230 PO = 1230.6 TO = 1433.1 HO = .10200

SECTION (1) CHINE

DEPENDENT VARIABLE H/HO

ANGLE 30.0000

X/L
.100 .1024
.150 .0886
.200 .0616

RN/L (6) = 5.500 HAW/HT(1) = .850 MACH = 8.0340 PO = 1350.0 TO = 1399.5 HO = .10500

SECTION (1) CHINE

DEPENDENT VARIABLE H/HO

ANGLE 30.0000

X/L
.100 .1240
.150 .1073
.200 .0743

RN/L (6) = 5.500 HAW/HT(2) = .900 MACH = 8.0340 PO = 1350.0 TO = 1399.5 HO = .10500

SECTION (1) CHINE

DEPENDENT VARIABLE H/HO

ANGLE 30.0000

X/L
.100 .1057
.150 .0918
.200 .0638

OH14 TABULATED SOURCE DATA
(RQLM04)
OH14 B22C75M4V7W111 ORBITER FLUCELAGE CHINE

DATE 09 JUL 76

PN/L (7) = 6.000 HAW/HT(1) = .850 MACH = 8.0450 P0 = 1482.3 TO = 1385.8 HO = .11300
SECTION (1) CHINE
DEPENDENT VARIABLE H/HO

ANGLE 30.0000
X/L
.100 .1296
.150 .1125
.200 .0776

PN/L (7) = 6.000 HAW/HT(2) = .900 MACH = 8.0450 P0 = 1482.3 TO = 1385.8 HO = .11300
SECTION (1) CHINE
DEPENDENT VARIABLE H/HO

ANGLE 30.0070
X/L
.100 .1102
.150 .0953
.200 .0655

PN/L (8) = 8.000 HAW/HT(1) = .850 MACH = 8.0810 P0 = 2029.5 TO = 1435.8 HO = .12900
SECTION (1) CHINE
DEPENDENT VARIABLE H/HO

ANGLE 30.0000
X/L
.100 .1353
.150 .1179
.200 .0833

PN/L (8) = 8.000 HAW/HT(2) = .900 MACH = 8.0810 P0 = 2029.5 TO = 1435.8 HO = .12900
SECTION (1) CHINE
DEPENDENT VARIABLE H/HO

ANGLE 30.0000
X/L
.100 .1154
.150 .1003
.200 .0714

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 72

OH14 828C7F5M4V7H111 ORBITTER FUSELAGE CHINE (RQ1M04)
RN/L (9) = 10.000 HAM/HT(1) = .850 MACH = 8.1060 P0 = 2540.6 TO = 1390.0 HO = .14200
SECTION (1) CHINE
DEPENDENT VARIABLE H/HO

ANGLE 30.0000

X/L
.100 .1441
.150 .1246
.200 .0874

RN/L (9) = 10.000 HAM/HT(2) = .900 MACH = 8.1060 P0 = 2540.6 TO = 1390.0 HO = .14200
SECTION (1) CHINE
DEPENDENT VARIABLE H/HO

ANGLE 30.0000

X/L
.100 .1205
.150 .1048
.200 .0742

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 73

OH14 922C7F5M4V7W111 FUSELAGE LOWER SURFACE

(R0LB05) (21 JUN 75)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = .0000 IN.
REF = 1290.3000 IN. YMRP = .0000
SPEF = 1290.3000 IN. ZMRP = .0000
SCALE = .0060

PARAMETRIC DATA

ALPHA = 35.000 BETA = .000
MACH = 8.000

RN/L (1) = 1.000 HAW/HT (1) = .850 MACH = 7.8050 PO = 228.45 TO = 1339.3 HO = .45000-01

DEPENDENT VARIABLE H/HO

SECTION (1) BOTTOM

S.P. .0000117.0000

X/L

.025 .1775
.050 .1297
.075 .1121
.100 .1042
.125 .0921
.150 .0800
.175 .0760
.200 .0721
.250 .0646
.300 .0571
.350 .0499
.400 .0425
.450 .0397
.500 .0369
.550 .0349
.600 .0349
.650 .0331
.700 .0303
.750 .0407
.800 .0332
.850 .0355
.900 .0326
.950 .0281
1.000 .0233
1.050 .0174

RN/L (1) = 1.000 HAW/HT (2) = .900 MACH = 7.8050 PO = 228.45 TO = 1339.3 HO = .45000-01

DEPENDENT VARIABLE H/HO

SECTION (1) BOTTOM

S.P. .0000117.0000

X/L

.025 .1493
.050 .1228
.075 .1000
.100 .0881
.125 .076

DATE 29 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 74

OH14 B22C7F5M4V7M111 FUSELAGE LOWER SURFACE

(RQLB05)

RN/L (1) = 1.000 HAW/HT (2) = .900

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

X/L
.150
.175 .0645
.200 .0612
.250 .0549
.300 .0486
.350 .0382 .0391
.400 .0447
.450 .0423
.500 .0425 .0488
.550
.600 .0383 .0404
.650 .0367
.700
.750 .0347
.800 .0274 .0289
.850 .0312
.900 .0278 .0261
.950 .0240
1.000 .0199 .0258
1.040 .0149

RN/L (2) = 3.000 HAW/HT (1) = .850

MACH = 7.9530

PO = 691.16

TO = 1405.4

MO = .78000-01

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

X/L
.025 .1205
.050 .1397
.075 .1282
.100 .1128
.125 .1005
.150
.175 .0823
.200 .0775
.250 .0634
.300 .0514
.350 .0456 .0486
.400 .0559
.450 .0528
.500 .0520 .0577
.550
.600 .0447 .0479
.650 .0438

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 75

OH14 B22C7F5M4V7M111 FUSELAGE LOWER SURFACE

(R0LB05)

RN/L (2) = 3.000 HAW/HT (1) = .850

SECTION (1) BOTTOM DEPENDENT VARIABLE H/HO

B.P. .000017.0000

X/L
.7000390
.750 .0424
.800 .0329
.850 .0403
.900 .0357
.950 .0306
1.000 .0265
1.040 .0213

RN/L (2) = 3.000 HAW/HT (2) = .900 MACH = 7.9530 PC = 691.16 TC = 1405.4 HC = 75000.00

SECTION (1) BOTTOM

B.P. .000017.0000

X/L
.000 .0393
.050 .0375
.100 .0362
.150 .0354
.200 .0346
.250 .0338
.300 .0330
.350 .0322
.400 .0314
.450 .0306
.500 .0298
.550 .0290
.600 .0282
.650 .0274
.700 .0266
.750 .0258
.800 .0250
.850 .0242
.900 .0234
.950 .0226
1.000 .0218
1.040 .0210

(ROL805)

OH14 B22C7F5M4V7M111 FUSELAGE LOWER SURFACE

PN/L (3) = 4.000 HAM/HT (1) = .850 MACH = 7.9950 PO = 973.32 TO = 1447.4 HO = 92000-01

DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

X/L
.025 .1651
.050 .1240
.075 .1137
.100 .1036
.125 .0897
.150
.175 .0734
.200 .0687
.250 .0607
.300 .0545
.350 .0417
.400 .0491
.450 .0474
.500 .0474
.550
.600 .0423
.650 .0439
.700
.750 .0514
.800 .0455
.850 .0581
.900 .0549
.950 .0509
1.000 .0503
1.050 .0419

PN/L (3) = 4.000 HAM/HT (2) = .900 MACH = 7.9950 PO = 973.32 TO = 1447.4 HO = 92000-01

DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

X/L
.025 .1376
.050 .1046
.075 .0952
.100 .0853
.125 .0761
.150
.175 .0624
.200 .0565
.250 .0518
.300 .0455
.350 .0357
.400 .0361
.450
.500 .0419

OH14 TABULATED SOURCE DATA

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE (ROLB05)

DATE 09 JUL 76

PN/L (3) = 4.000 HAW/HT (2) = .900

SECTION (1) BOTTOM DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

| X/L | Y/L |
|-------|-------|
| .450 | .0405 |
| .500 | .0404 |
| .550 | .0422 |
| .600 | .0347 |
| .650 | .0351 |
| .700 | .0375 |
| .750 | .0303 |
| .800 | .0317 |
| .850 | .0347 |
| .900 | .0336 |
| .950 | .0336 |
| 1.000 | .0359 |

PN/L (4) = 5.000 HAW/HT (1) = .850 MACH = 8.0210 PO = 1209.7 TO = 1433.1 HO = .10100

SECTION (1) BOTTOM DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

| X/L | Y/L |
|-------|-------|
| .450 | .0688 |
| .500 | .0677 |
| .550 | .0691 |
| .600 | .0649 |
| .650 | .0637 |
| .700 | .0637 |
| .750 | .0637 |
| .800 | .0637 |
| .850 | .0637 |
| .900 | .0637 |
| .950 | .0637 |
| 1.000 | .0637 |

OH14 TABULATED SOURCE DATA
(RQLB05)

DATE 09 JUL 76

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

RN/L (4) = 5.000 HAW/HT(1) = .850

SECTION (1) BOTTOM

B.P. .0000117.0000

X/L
1.040 .0661

RN/L (4) = 5.020 HAW/HT(2) = .900 MACH = 8.0210 PO = 1209.7 TO = 1433.1 MO = .10100

SECTION (1) BOTTOM

B.P. .0000117.0000

X/L
.025 .1396
.050 .1071
.075 .1003
.100 .0885
.125 .0789
.150
.175 .0649
.200 .0505
.250 .0334
.300 .0474
.350 .0359 .0363
.400 .0429
.450 .0421
.500 .0432 .0442
.550
.600 .0434 .0385
.650 .0493
.700
.750 .0575
.800 .0624 .0494
.850 .0795
.900 .0731 .0549
.950 .0678
1.000 .0671 .0473
1.050 .0562

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

02 = 1495.1

DEPENDENT VARIABLE H/HO

SECTION (1) BOTTOM

3.2. .0000117.0000

[illegible]

1997-1998

000 MACH = 8.0+70

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DEPENDENT VARIABLE: H/HO

2010-2011

0600:17.0000.

1. The first step is to identify the problem or question that needs to be addressed. This involves understanding the context and the specific requirements of the task.

2. Next, it is important to gather relevant information and data. This can be done through research, consultation with experts, or by analyzing existing resources.

3. Once the information is gathered, the next step is to develop a plan or strategy. This involves breaking down the problem into smaller, manageable parts and determining the best approach to solve each part.

4. After the plan is developed, the next step is to implement the solution. This involves putting the plan into action and monitoring the progress to ensure that the solution is effective.

5. Finally, it is important to evaluate the results of the solution. This involves comparing the actual outcomes with the expected results and identifying any areas for improvement.

ORIGINAL PAGE IS
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DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 80

OH14 B22C7F5M4V7H111 FUSELAGE LOWER SURFACE

(RQL805)

PN/L (5) = 6.000 HAM/HT (2) = .900

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

| X/L | |
|--------|-------|
| .450 | .0452 |
| .500 | .0476 |
| .550 | .0477 |
| .600 | .0477 |
| .650 | .0477 |
| .700 | .0477 |
| .750 | .0477 |
| .800 | .0477 |
| .850 | .0477 |
| .900 | .0477 |
| .950 | .0477 |
| 1.000 | .0477 |
| 1.050 | .0477 |
| 1.100 | .0477 |
| 1.150 | .0477 |
| 1.200 | .0477 |
| 1.250 | .0477 |
| 1.300 | .0477 |
| 1.350 | .0477 |
| 1.400 | .0477 |
| 1.450 | .0477 |
| 1.500 | .0477 |
| 1.550 | .0477 |
| 1.600 | .0477 |
| 1.650 | .0477 |
| 1.700 | .0477 |
| 1.750 | .0477 |
| 1.800 | .0477 |
| 1.850 | .0477 |
| 1.900 | .0477 |
| 1.950 | .0477 |
| 2.000 | .0477 |
| 2.050 | .0477 |
| 2.100 | .0477 |
| 2.150 | .0477 |
| 2.200 | .0477 |
| 2.250 | .0477 |
| 2.300 | .0477 |
| 2.350 | .0477 |
| 2.400 | .0477 |
| 2.450 | .0477 |
| 2.500 | .0477 |
| 2.550 | .0477 |
| 2.600 | .0477 |
| 2.650 | .0477 |
| 2.700 | .0477 |
| 2.750 | .0477 |
| 2.800 | .0477 |
| 2.850 | .0477 |
| 2.900 | .0477 |
| 2.950 | .0477 |
| 3.000 | .0477 |
| 3.050 | .0477 |
| 3.100 | .0477 |
| 3.150 | .0477 |
| 3.200 | .0477 |
| 3.250 | .0477 |
| 3.300 | .0477 |
| 3.350 | .0477 |
| 3.400 | .0477 |
| 3.450 | .0477 |
| 3.500 | .0477 |
| 3.550 | .0477 |
| 3.600 | .0477 |
| 3.650 | .0477 |
| 3.700 | .0477 |
| 3.750 | .0477 |
| 3.800 | .0477 |
| 3.850 | .0477 |
| 3.900 | .0477 |
| 3.950 | .0477 |
| 4.000 | .0477 |
| 4.050 | .0477 |
| 4.100 | .0477 |
| 4.150 | .0477 |
| 4.200 | .0477 |
| 4.250 | .0477 |
| 4.300 | .0477 |
| 4.350 | .0477 |
| 4.400 | .0477 |
| 4.450 | .0477 |
| 4.500 | .0477 |
| 4.550 | .0477 |
| 4.600 | .0477 |
| 4.650 | .0477 |
| 4.700 | .0477 |
| 4.750 | .0477 |
| 4.800 | .0477 |
| 4.850 | .0477 |
| 4.900 | .0477 |
| 4.950 | .0477 |
| 5.000 | .0477 |
| 5.050 | .0477 |
| 5.100 | .0477 |
| 5.150 | .0477 |
| 5.200 | .0477 |
| 5.250 | .0477 |
| 5.300 | .0477 |
| 5.350 | .0477 |
| 5.400 | .0477 |
| 5.450 | .0477 |
| 5.500 | .0477 |
| 5.550 | .0477 |
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| 5.650 | .0477 |
| 5.700 | .0477 |
| 5.750 | .0477 |
| 5.800 | .0477 |
| 5.850 | .0477 |
| 5.900 | .0477 |
| 5.950 | .0477 |
| 6.000 | .0477 |
| 6.050 | .0477 |
| 6.100 | .0477 |
| 6.150 | .0477 |
| 6.200 | .0477 |
| 6.250 | .0477 |
| 6.300 | .0477 |
| 6.350 | .0477 |
| 6.400 | .0477 |
| 6.450 | .0477 |
| 6.500 | .0477 |
| 6.550 | .0477 |
| 6.600 | .0477 |
| 6.650 | .0477 |
| 6.700 | .0477 |
| 6.750 | .0477 |
| 6.800 | .0477 |
| 6.850 | .0477 |
| 6.900 | .0477 |
| 6.950 | .0477 |
| 7.000 | .0477 |
| 7.050 | .0477 |
| 7.100 | .0477 |
| 7.150 | .0477 |
| 7.200 | .0477 |
| 7.250 | .0477 |
| 7.300 | .0477 |
| 7.350 | .0477 |
| 7.400 | .0477 |
| 7.450 | .0477 |
| 7.500 | .0477 |
| 7.550 | .0477 |
| 7.600 | .0477 |
| 7.650 | .0477 |
| 7.700 | .0477 |
| 7.750 | .0477 |
| 7.800 | .0477 |
| 7.850 | .0477 |
| 7.900 | .0477 |
| 7.950 | .0477 |
| 8.000 | .0477 |
| 8.050 | .0477 |
| 8.100 | .0477 |
| 8.150 | .0477 |
| 8.200 | .0477 |
| 8.250 | .0477 |
| 8.300 | .0477 |
| 8.350 | .0477 |
| 8.400 | .0477 |
| 8.450 | .0477 |
| 8.500 | .0477 |
| 8.550 | .0477 |
| 8.600 | .0477 |
| 8.650 | .0477 |
| 8.700 | .0477 |
| 8.750 | .0477 |
| 8.800 | .0477 |
| 8.850 | .0477 |
| 8.900 | .0477 |
| 8.950 | .0477 |
| 9.000 | .0477 |
| 9.050 | .0477 |
| 9.100 | .0477 |
| 9.150 | .0477 |
| 9.200 | .0477 |
| 9.250 | .0477 |
| 9.300 | .0477 |
| 9.350 | .0477 |
| 9.400 | .0477 |
| 9.450 | .0477 |
| 9.500 | .0477 |
| 9.550 | .0477 |
| 9.600 | .0477 |
| 9.650 | .0477 |
| 9.700 | .0477 |
| 9.750 | .0477 |
| 9.800 | .0477 |
| 9.850 | .0477 |
| 9.900 | .0477 |
| 9.950 | .0477 |
| 10.000 | .0477 |

PN/L (6) = 8.000 HAM/HT (1) = .850 MACH = 8.0810 PO = 203.3 TO = 1431.7 HO = .12800

SECTION (1) BOTTOM

DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

| X/L | |
|--------|-------|
| .450 | .0225 |
| .500 | .0225 |
| .550 | .0225 |
| .600 | .0225 |
| .650 | .0225 |
| .700 | .0225 |
| .750 | .0225 |
| .800 | .0225 |
| .850 | .0225 |
| .900 | .0225 |
| .950 | .0225 |
| 1.000 | .0225 |
| 1.050 | .0225 |
| 1.100 | .0225 |
| 1.150 | .0225 |
| 1.200 | .0225 |
| 1.250 | .0225 |
| 1.300 | .0225 |
| 1.350 | .0225 |
| 1.400 | .0225 |
| 1.450 | .0225 |
| 1.500 | .0225 |
| 1.550 | .0225 |
| 1.600 | .0225 |
| 1.650 | .0225 |
| 1.700 | .0225 |
| 1.750 | .0225 |
| 1.800 | .0225 |
| 1.850 | .0225 |
| 1.900 | .0225 |
| 1.950 | .0225 |
| 2.000 | .0225 |
| 2.050 | .0225 |
| 2.100 | .0225 |
| 2.150 | .0225 |
| 2.200 | .0225 |
| 2.250 | .0225 |
| 2.300 | .0225 |
| 2.350 | .0225 |
| 2.400 | .0225 |
| 2.450 | .0225 |
| 2.500 | .0225 |
| 2.550 | .0225 |
| 2.600 | .0225 |
| 2.650 | .0225 |
| 2.700 | .0225 |
| 2.750 | .0225 |
| 2.800 | .0225 |
| 2.850 | .0225 |
| 2.900 | .0225 |
| 2.950 | .0225 |
| 3.000 | .0225 |
| 3.050 | .0225 |
| 3.100 | .0225 |
| 3.150 | .0225 |
| 3.200 | .0225 |
| 3.250 | .0225 |
| 3.300 | .0225 |
| 3.350 | .0225 |
| 3.400 | .0225 |
| 3.450 | .0225 |
| 3.500 | .0225 |
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| 3.600 | .0225 |
| 3.650 | .0225 |
| 3.700 | .0225 |
| 3.750 | .0225 |
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| 3.850 | .0225 |
| 3.900 | .0225 |
| 3.950 | .0225 |
| 4.000 | .0225 |
| 4.050 | .0225 |
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| 4.250 | .0225 |
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| 4.350 | .0225 |
| 4.400 | .0225 |
| 4.450 | .0225 |
| 4.500 | .0225 |
| 4.550 | .0225 |
| 4.600 | .0225 |
| 4.650 | .0225 |
| 4.700 | .0225 |
| 4.750 | .0225 |
| 4.800 | .0225 |
| 4.850 | .0225 |
| 4.900 | .0225 |
| 4.950 | .0225 |
| 5.000 | .0225 |
| 5.050 | .0225 |
| 5.100 | .0225 |
| 5.150 | .0225 |
| 5.200 | .0225 |
| 5.250 | .0225 |
| 5.300 | .0225 |
| 5.350 | .0225 |
| 5.400 | .0225 |
| 5.450 | .0225 |
| 5.500 | .0225 |
| 5.550 | .0225 |
| 5.600 | .0225 |
| 5.650 | .0225 |
| 5.700 | .0225 |
| 5.750 | .0225 |
| 5.800 | .0225 |
| 5.850 | .0225 |
| 5.900 | .0225 |
| 5.950 | .0225 |
| 6.000 | .0225 |
| 6.050 | .0225 |
| 6.100 | .0225 |
| 6.150 | .0225 |
| 6.200 | .0225 |
| 6.250 | .0225 |
| 6.300 | .0225 |
| 6.350 | .0225 |
| 6.400 | .0225 |
| 6.450 | .0225 |
| 6.500 | .0225 |
| 6.550 | .0225 |
| 6.600 | .0225 |
| 6.650 | .0225 |
| 6.700 | .0225 |
| 6.750 | .0225 |
| 6.800 | .0225 |
| 6.850 | .0225 |
| 6.900 | .0225 |
| 6.950 | .0225 |
| 7.000 | .0225 |
| 7.050 | .0225 |
| 7.100 | .0225 |
| 7.150 | .0225 |
| 7.200 | .0225 |
| 7.250 | .0225 |
| 7.300 | .0225 |
| 7.350 | .0225 |
| 7.400 | .0225 |
| 7.450 | .0225 |
| 7.500 | .0225 |
| 7.550 | .0225 |
| 7.600 | .0225 |
| 7.650 | .0225 |
| 7.700 | .0225 |
| 7.750 | .0225 |
| 7.800 | .0225 |
| 7.850 | .0225 |
| 7.900 | .0225 |
| 7.950 | .0225 |
| 8.000 | .0225 |
| 8.050 | .0225 |
| 8.100 | .0225 |
| 8.150 | .0225 |
| 8.200 | .0225 |
| 8.250 | .0225 |
| 8.300 | .0225 |
| 8.350 | .0225 |
| 8.400 | .0225 |
| 8.450 | .0225 |
| 8.500 | .0225 |
| 8.550 | .0225 |
| 8.600 | .0225 |
| 8.650 | .0225 |
| 8.700 | .0225 |
| 8.750 | .0225 |
| 8.800 | .0225 |
| 8.850 | .0225 |
| 8.900 | .0225 |
| 8.950 | .0225 |
| 9.000 | .0225 |
| 9.050 | .0225 |
| 9.100 | .0225 |
| 9.150 | .0225 |
| 9.200 | .0225 |
| 9.250 | .0225 |
| 9.300 | .0225 |
| 9.350 | .0225 |
| 9.400 | .0225 |
| 9.450 | .0225 |
| 9.500 | .0225 |
| 9.550 | .0225 |
| 9.600 | .0225 |
| 9.650 | .0225 |
| 9.700 | .0225 |
| 9.750 | .0225 |
| 9.800 | .0225 |
| 9.850 | .0225 |
| 9.900 | .0225 |
| 9.950 | .0225 |
| 10.000 | .0225 |

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 82

OH14 B22C7F5M4V7M111 FUSELAGE LOWER SURFACE (ROL805)

PN/L (7) = 10.000 WAM/MT(1) = .850 MACH = 8.1050 PO = 2532.2 TO = 1428.4 MO = .14200

SECTION (1) BOTTOM DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

X/L
.025 .1830
.050 .1539
.075 .1430
.100 .1266
.125 .1138
.150 .0926
.175 .0857
.200 .0744
.250 .0664
.300 .0352 .0478
.350 .0551
.400 .0735
.450 .0941 .0756
.500 .1521 .1101
.550 .1839 .1593
.600 .2275
.650 .1697 .1506
.700 .2118
.750 .1755 .1571
.800 .1549
.850 .1474 .0989
.900 .1131

PN/L (7) = 10.000 WAM/MT(2) = .900 MACH = 8.1050 PO = 2522.2 TO = 1428.4 MO = .14200

SECTION (1) BOTTOM DEPENDENT VARIABLE H/HO

B.P. .0000117.0000

X/L
.025 .1393
.050 .1255
.075 .1173
.100 .1045
.125 .0941
.150 .0771
.175 .0714
.200 .0622
.250 .0556
.300 .0298 .0400
.350 .0545
.400 .0545

DATE 09 JUL 76

OH-14 TABULATED SOURCE DATA

PAGE 83

(POLB05)

OH-14 B2C07F544V7W111 FUSELAGE LOWER SURFACE

BN/L (7) = 10.000 HAW/WT (2) = .900

SECTION 11 BOTTOM

DEPENDENT VARIABLE H/HO

B.P. 0000117.0000

| | |
|--------|-------|
| 1.500 | .0613 |
| 1.600 | .0781 |
| 1.700 | .0620 |
| 1.800 | .0620 |
| 1.900 | .0620 |
| 2.000 | .0620 |
| 2.100 | .0620 |
| 2.200 | .0620 |
| 2.300 | .0620 |
| 2.400 | .0620 |
| 2.500 | .0620 |
| 2.600 | .0620 |
| 2.700 | .0620 |
| 2.800 | .0620 |
| 2.900 | .0620 |
| 3.000 | .0620 |
| 3.100 | .0620 |
| 3.200 | .0620 |
| 3.300 | .0620 |
| 3.400 | .0620 |
| 3.500 | .0620 |
| 3.600 | .0620 |
| 3.700 | .0620 |
| 3.800 | .0620 |
| 3.900 | .0620 |
| 4.000 | .0620 |
| 4.100 | .0620 |
| 4.200 | .0620 |
| 4.300 | .0620 |
| 4.400 | .0620 |
| 4.500 | .0620 |
| 4.600 | .0620 |
| 4.700 | .0620 |
| 4.800 | .0620 |
| 4.900 | .0620 |
| 5.000 | .0620 |
| 5.100 | .0620 |
| 5.200 | .0620 |
| 5.300 | .0620 |
| 5.400 | .0620 |
| 5.500 | .0620 |
| 5.600 | .0620 |
| 5.700 | .0620 |
| 5.800 | .0620 |
| 5.900 | .0620 |
| 6.000 | .0620 |
| 6.100 | .0620 |
| 6.200 | .0620 |
| 6.300 | .0620 |
| 6.400 | .0620 |
| 6.500 | .0620 |
| 6.600 | .0620 |
| 6.700 | .0620 |
| 6.800 | .0620 |
| 6.900 | .0620 |
| 7.000 | .0620 |
| 7.100 | .0620 |
| 7.200 | .0620 |
| 7.300 | .0620 |
| 7.400 | .0620 |
| 7.500 | .0620 |
| 7.600 | .0620 |
| 7.700 | .0620 |
| 7.800 | .0620 |
| 7.900 | .0620 |
| 8.000 | .0620 |
| 8.100 | .0620 |
| 8.200 | .0620 |
| 8.300 | .0620 |
| 8.400 | .0620 |
| 8.500 | .0620 |
| 8.600 | .0620 |
| 8.700 | .0620 |
| 8.800 | .0620 |
| 8.900 | .0620 |
| 9.000 | .0620 |
| 9.100 | .0620 |
| 9.200 | .0620 |
| 9.300 | .0620 |
| 9.400 | .0620 |
| 9.500 | .0620 |
| 9.600 | .0620 |
| 9.700 | .0620 |
| 9.800 | .0620 |
| 9.900 | .0620 |
| 10.000 | .0620 |

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 84

OH14 922C7F5M4V7M111 WING LOWER SURFACE

(ROLK05) (21 JUN 76)

REFERENCE DATA

SREF = 2690.0300 SQ.FT. XMRP =
LREF = 1290.3000 IN. YMRP =
SREF = 1290.3000 IN. ZMRP =
SCALE = .0050

PARAMETRIC DATA

ALPHA = 35.000 BETA = .000
MACH = 8.000

RN/L (1) = 1.000 HAW/HT (1) =

.850 MACH = 7.8050 P0 = 228.45 T0 = 1339.3 H0 = .45000-01

SECTION (1) WING

DEPENDENT VARIABLE H/H0

2Y/B .4000 .6000 .8000

X/C

.050 .0856
.100 .0951 .0973
.200 .0642 .0891
.300 .0495 .0734
.400 .0403 .0551 .0791
.500 .0357 .0508
.600 .0337 .0456 .0622
.700 .0312 .0412
.800 .0290 .0373 .0492
.900 .0230 .0320

RN/L (1) = 1.000 HAW/HT (2) =

.900 MACH = 7.8050 P0 = 228.45 T0 = 1339.3 H0 = .45000-01

SECTION (1) WING

DEPENDENT VARIABLE H/H0

2Y/B .4000 .6000 .8000

X/C

.050 .0724
.100 .0721 .0824
.200 .0545 .0755
.300 .0412 .0623
.400 .0343 .0553 .0672
.500 .0304 .0508
.600 .0287 .0473 .0529
.700 .0266 .0435
.800 .0247 .0395 .0419
.900 .0196 .0273

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 85

OH14 B22C7F5M4V7W111 WING LOWER SURFACE (ROLW05)

PN/L (2) = 3.000 HAW/HT (1) = .850 MACH = 7.9530 P0 = 691.16 T0 = 1405.4 H0 = .78000-01

DEPENDENT VARIABLE H/H0

SECTION (1) WING

2Y/B .4000 .6000 .8000

X/C

.050 .0883
.100 .0879
.120 .1042
.140 .0831
.160 .0747
.180 .0650
.200 .0539
.220 .0426
.240 .0313
.260 .0200
.280 .0087
.300 .0000
.320 .0000
.340 .0000
.360 .0000
.380 .0000
.400 .0000
.420 .0000
.440 .0000
.460 .0000
.480 .0000
.500 .0000
.520 .0000
.540 .0000
.560 .0000
.580 .0000
.600 .0000
.620 .0000
.640 .0000
.660 .0000
.680 .0000
.700 .0000
.720 .0000
.740 .0000
.760 .0000
.780 .0000
.800 .0000
.820 .0000
.840 .0000
.860 .0000
.880 .0000
.900 .0000
.920 .0000
.940 .0000
.960 .0000
.980 .0000
1.000 .0000

PN/L (2) = 3.000 HAW/HT (2) = .900 MACH = 7.9530 P0 = 691.16 T0 = 1405.4 H0 = .78000-01

DEPENDENT VARIABLE H/H0

SECTION (1) WING

2Y/B .4000 .6000 .8000

X/C

.050 .0728
.100 .0715
.150 .0699
.200 .0680
.250 .0659
.300 .0633
.350 .0600
.400 .0560
.450 .0510
.500 .0450
.550 .0380
.600 .0300
.650 .0210
.700 .0110
.750 .0010
.800 .0000
.850 .0000
.900 .0000
.950 .0000
1.000 .0000

PN/L (3) = 3.000 HAW/HT (1) = .850 MACH = 7.9530 P0 = 691.16 T0 = 1405.4 H0 = .78000-01

DEPENDENT VARIABLE H/H0

SECTION (1) WING

2Y/B .4000 .6000 .8000

X/C

.050 .0730
.100 .0717
.150 .0699
.200 .0680
.250 .0659
.300 .0633
.350 .0600
.400 .0560
.450 .0510
.500 .0450
.550 .0380
.600 .0300
.650 .0210
.700 .0110
.750 .0010
.800 .0000
.850 .0000
.900 .0000
.950 .0000
1.000 .0000

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OF POOR QUALITY

(RQLW05)

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

OH14 B22C7F5M4V7W111 WING LOWER SURFACE

RN/L (3) = 4.000 HAW/HT (1) = .850

SECTION (1) WING

2Y/B .4000 .6000 .8000

X/C .900 .0264 .0345

RN/L (3) = 4.000 HAW/HT (2) = .900 MACH = 7.9950 PO = 973.32 TO = 1447.4 HO = .92000-01

SECTION (1) WING

2Y/B .4000 .6000 .8000

X/C

.050 .0617
.100 .0651
.200 .0499
.300 .0372
.400 .0307
.500 .0286
.600 .0291
.700 .0282
.800 .0276
.900 .0226

RN/L (4) = 5.000 HAW/HT (1) = .850 MACH = 8.0210 PO = 1209.7 TO = 1433.1 HO = .10100

SECTION (1) WING

2Y/B .4000 .6000 .8000

X/C

.050 .0758
.100 .0817
.200 .0640
.300 .0495
.400 .0431
.500 .0426
.600 .0465
.700 .0485
.800 .0482
.900 .0418

.1078
.0954
.0796
.0854
.0738
.0716
.0644
.0663
.0529
.0429

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 87

OH14 B22C7F5M4V7W111 WING LOWER SURFACE (RQLW05)

RN/L (4) = 5.000 HAW/HT(2) = .900 MACH = 8.0210 P0 = 1279.7 TO = 1433.1 HC = .10100

SECTION (1) WING DEPENDENT VARIABLE H/HO

2Y/B .4000 .5000 .8000
X/C
.050 .0637
.100 .0687 .0904
.200 .0542 .0901
.300 .0420 .0670
.400 .0365 .0621 .0722
.500 .0362 .0603
.600 .0335 .0591 .0546
.700 .0411 .0551
.800 .0410 .0551 .0540
.900 .0365 .0365

RN/L (5) = 6.000 HAW/HT(1) = .850 MACH = 8.0470 P0 = 1499.1 TO = 1431.9 HC = .11100

SECTION (1) WING DEPENDENT VARIABLE H/HO

2Y/B .4000 .5000 .8000
X/C
.050 .0654
.100 .0956 .1181
.200 .0698 .1139
.300 .0561 .1174
.400 .0511 .0879
.500 .0528
.600 .0612 .1351 .0782
.700 .0658 .1288
.800 .0653 .0980 .0769
.900 .0573 .0755

RN/L (5) = 6.000 HAW/HT(2) = .900 MACH = 8.0470 P0 = 1499.1 TO = 1431.9 HC = .11100

SECTION (1) WING DEPENDENT VARIABLE H/HO

2Y/B .4000 .5000 .8000
X/C
.050 .0540
.100 .0715 .0383
.200 .0597 .0947
.300 .0473 .0372
.400 .0431 .0738
.500 .0445
.600 .0515 .1116 .0558
.700 .0553 .1067
.800 .0558 .0849

OH14 TABULATED SOURCE DATA

(RQLW05)

DATE 09 JUL 76

OH14 B22C7F5M4V7W111 WING LOWER SURFACE

PN/L (5) = 6.000 HAM/HT (2) = .900

SECTION (1) WING

2Y/B .4000 .6000 .8000

X/C .900 .0485 .0637

PN/L (6) = 8.000 HAM/HT (1) = .850 MACH = 8.0810 PO = 2031.3 TO = 1431.7 HO = .12800

SECTION (1) WING

2Y/B .4000 .6000 .8000

X/C
.050 .0835
.100 .0953 .1611
.200 .0835 .1750
.300 .0746 .1675
.400 .0746 .1660 .1370
.500 .0820 .1622
.600 .0973 .1577 .1710
.700 .1036 .1517
.800 .1016 .1246 .1704
.900 .0875 .0975

PN/L (6) = 8.000 HAM/HT (2) = .900 MACH = 8.0810 PO = 2031.3 TO = 1431.7 HO = .12800

SECTION (1) WING

2Y/B .4000 .6000 .8000

X/C
.050 .0690
.100 .0787 .1312
.200 .0695 .1338
.300 .0622 .1270
.400 .0620 .1256 .1083
.500 .0580 .1239
.600 .0803 .1219 .1327
.700 .0852 .1181
.800 .0840 .1023 .1384
.900 .0727 .0907

CH14 B22C7F5M4V7W111 WING LOWER SURFACE (RQLW05)

| | | | | | | |
|---------|-----------------|--------------------|-----------------|---------------|---------------|--------------|
| R^2/L | $\tau = 10.000$ | $HAW/HT(1) = .850$ | $MACH = 8.1053$ | $PO = 2522.2$ | $TO = 1428.4$ | $40 = .1428$ |
|---------|-----------------|--------------------|-----------------|---------------|---------------|--------------|

SECRET

DEPENDENT VARIABLE H/HO

2Y:B 635 5009 0002

3/X

| Year | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1971 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 |

$$\tau = 0.009 \text{ HAW/HT(2)} =$$

9
1
2
3
4
5

DEPENDENT VARIABLE H/HO

24.3 33.5 30.5 30.8

11

6291

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 90

OH14 822C7F5M4V7W111 FUSELAGE UPPER SURFACE

(R0LS05) (2 JUN 76)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000
 BREF = 1290.3000 IN. ZMRP = .0000
 SCALE = .0060

PARAMETRIC DATA

ALPHA = 35.000 BETA = .000
 MACH = 8.000

RN/L (1) = 1.000 HAW/HT(1) = .850 MACH = 7.8050 PO = 228.45 TO = 1339.3 HO = .45000-01

SECTION (1) TOP

DEPENDENT VARIABLE H/HO

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.

375.000 .0122 .0086 .0045 .0020.....
 400.000 .0116
 425.000 .0085 .0136 .0109 .0054 .0016
 450.000 .0015
 501.000 .0109 .0023 .0021 .0019

RN/L (1) = 1.000 HAW/HT(2) = .900 MACH = 7.8050 PO = 228.45 TO = 1339.3 HO = .45000-01

SECTION (1) TOP

DEPENDENT VARIABLE H/HO

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.

375.000 .0104 .0074 .0038 .0017.....
 400.000 .0099
 425.000 .0073 .0117 .0093 .0047 .0014
 450.000 .0013
 501.000 .0093 .0019 .0018 .0011 .0018 .0017

RN/L (2) = 3.000 HAW/HT(1) = .850 MACH = 7.9530 PO = 691.16 TO = 1405.4 HO = .78000-01

SECTION (1) TOP

DEPENDENT VARIABLE H/HO

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.

375.000 .0138 .0114 .0048 .0016 .0015
 400.000 .0152
 425.000 .0088 .0171 .0142 .0048 .0029
 450.000 .0019
 501.000 .0167 .0020 .0033 .0019 .0016 .0033

DATE 09 JUL 76

PAGE 9:

OH14 TABULATED SOURCE DATA

(RQLS05)

OH14 B22C7F5M4V7M111 FUSELAGE UPPER SURFACE

HO = .75000-01

TO = 691.16

PO = 7.9530

PA/L (2) = 3.000 HAW/HIT (2) = .900 MACH = 7.9530

DEPENDENT VARIABLE H/HO

SECTION (1) TOP

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

H/P

375.000 .0119 .0098 .3130 .0041 .0014 .0013
 400.000 .0076 .0147 .0122 .0041 .0025
 425.000 .0143 .0017 .0028 .0016 .0014 .0029
 50.000

HO = .92000-01

TO = 973.32

PO = 7.9950

PA/L (3) = 4.000 HAW/HIT (3) = .850 MACH = 7.9950

DEPENDENT VARIABLE H/HO

SECTION (1) TOP

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

H/P

375.000 .0124 .0106 .0143 .0038 .0011 .0014
 400.000 .0078 .0154 .0141 .0047 .0020
 425.000 .0120 .0013 .0035 .0021 .0019 .0029
 50.000

HO = .92000-01

TO = 973.32

PO = 7.9950

PA/L (3) = 4.000 HAW/HIT (2) = .900 MACH = 7.9950

DEPENDENT VARIABLE H/HO

SECTION (1) TOP

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

H/P

375.000 .0107 .0092 .0123 .0033 .0010 .0012
 400.000 .0067 .0132 .0121 .0041 .0017
 425.000 .0103 .0011 .0030 .0019 .0017 .0026
 50.000

HO = .10100

TO = 1209.7

PO = 8.0210

PA/L (4) = 5.000 HAW/HIT (3) = .850 MACH = 8.0210

DEPENDENT VARIABLE H/HO

SECTION (1) TOP

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

H/P

375.000 .0130 .0117 .0154 .0048 .0017 .0018
 400.000 .0091 .0158 .0155 .0055 .0024
 425.000 .0172 .0020 .0038 .0022 .0025 .0034
 50.000

PO = .0016

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 52

OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE (RQLS05)

RN/L (4) = 5.000 HAW/HT (2) = .900 MACH = 8.0210 PO = 1209.7 TO = 1433.1 HO = .12100

SECTION (1) TOP

DEPENDENT VARIABLE H/HO

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

H.P.

| | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|
| 375.000 | .0112 | .0101 | .0133 | .0041 | .0014 | .0015 |
| 400.000 | | | | | | |
| 425.000 | .0070 | .0136 | .0134 | .0057 | .0021 | .0014 |
| 465.000 | | | | | | |
| 501.000 | .0148 | .0017 | .0033 | .0019 | .0021 | .0029 |

RN/L (5) = 6.000 HAW/HT (1) = .850 MACH = 8.0470 PO = 1499.1 TO = 1431.9 HO = .11100

SECTION (1) TOP

DEPENDENT VARIABLE H/HO

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

H.P.

| | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|
| 375.000 | .0141 | .0130 | .0169 | .0052 | .0019 | .0015 |
| 400.000 | | | | | | |
| 425.000 | .0086 | .0166 | .0171 | .0076 | .0022 | .0021 |
| 465.000 | | | | | | |
| 501.000 | .0196 | .0016 | .0035 | .0024 | .0027 | .0034 |

RN/L (5) = 6.000 HAW/HT (2) = .900 MACH = 8.0470 PO = 1499.1 TO = 1431.9 HO = .11100

SECTION (1) TOP

DEPENDENT VARIABLE H/HO

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

H.P.

| | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|
| 375.000 | .0121 | .0112 | .0145 | .0045 | .0016 | .0013 |
| 400.000 | | | | | | |
| 425.000 | .0074 | .0142 | .0147 | .0065 | .0019 | .0018 |
| 465.000 | | | | | | |
| 501.000 | .0168 | .0014 | .0030 | .0021 | .0024 | .0029 |

RN/L (6) = 8.000 HAW/HT (1) = .850 MACH = 8.0810 PO = 2031.3 TO = 1431.7 HO = .12800

SECTION (1) TOP

DEPENDENT VARIABLE H/HO

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

H.P.

| | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|
| 375.000 | .0143 | .0141 | .0181 | .0049 | .0025 | .0024 |
| 400.000 | | | | | | |
| 425.000 | .0090 | .0170 | .0193 | .0079 | .0029 | .0024 |
| 465.000 | | | | | | |
| 501.000 | .0230 | .0014 | .0011 | .0012 | .0022 | .0069 |

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 93

OH14 B22C7F54V7W111 FUSELAGE UPPER SURFACE (R0LS05)

PN/L (6) = 8.000 HAW/HT (2) = .900 MACH = 8.0810 PO = 2031.3 TO = 1431.7 HO = .12800

SECTION 1: TOP

DEPENDENT VARIABLE H/HO

| X/L | .1700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| W.P. | | | | | | | | |
| 375.000 | .0123 | .0122 | | .0155 | .0042 | .0022 | .0021 | |
| 400.000 | | | | | .0166 | .0068 | .0025 | |
| 425.000 | .0077 | .0146 | | | .0010 | .0019 | .0060 | .0021 |
| 450.000 | .0197 | .0012 | .0009 | | | | | |
| 501.000 | | | | | | | | |

PN/L (7) = 10.000 HAW/HT (1) = .850 MACH = 8.1050 PO = 2522.2 TO = 1428.4 HO = .14200

SECTION 1: TOP

DEPENDENT VARIABLE H/HO

| X/L | .1700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| W.P. | | | | | | | | |
| 375.000 | .0149 | .0148 | | .0192 | .0073 | .0034 | .0026 | |
| 400.000 | | | | | .0222 | .0120 | .0030 | |
| 425.000 | .0094 | .0176 | | | .0015 | .0021 | .0028 | .0020 |
| 450.000 | .0187 | .0017 | .0019 | | | | | |
| 501.000 | | | | | | | | |

PN/L (7) = 10.000 HAW/HT (2) = .900 MACH = 8.1050 PO = 2522.2 TO = 1428.4 HO = .14200

SECTION 1: TOP

DEPENDENT VARIABLE H/HO

| X/L | .1700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| W.P. | | | | | | | | |
| 375.000 | .0127 | .0127 | | .0154 | .0063 | .0030 | .0022 | |
| 400.000 | | | | | .0189 | .0103 | .0026 | |
| 425.000 | .0090 | .0161 | | | .0014 | .0019 | .0024 | .0017 |
| 450.000 | .0159 | .0015 | .0015 | | | | | |
| 501.000 | | | | | | | | |

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(RQLM05) (21 JUN 76)

OH14 TABULATED SOURCE DATA

DATE 09 JUL 76

OH14 B22C7F5M4V7W111 ORBITER FUSELAGE CHINE

PARAMETRIC DATA

ALPHA = 35.000 BETA = .000
MACH = 8.000
TO = 1339.3 HO = .45000-01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
LREF = 1290.3000 IN. YMRP = .0000
BREF = 1290.3000 IN. ZMRP = .0000
SCALE = .0060

RN/L (1) = 1.000 HAW/HT(1) = .850 MACH = 7.8050 PO = 228.45 TO = .45000-01

DEPENDENT VARIABLE H/HO

SECTION (1) CHINE

ANGLE 30.0000

X/L
.100 .1091
.150 .0955
.200 .0706

RN/L (1) = 1.000 HAW/HT(2) = .900 MACH = 7.8050 PO = 228.45 TO = .45000-01

DEPENDENT VARIABLE H/HO

SECTION (1) CHINE

ANGLE 30.0000

X/L
.100 .0924
.150 .0810
.200 .0599

RN/L (2) = 3.000 HAW/HT(1) = .850 MACH = 7.9530 PO = 691.16 TO = .78000-01

DEPENDENT VARIABLE H/HO

SECTION (1) CHINE

ANGLE 30.0000

X/L
.100 .1197
.150 .1067
.200 .0772

RN/L (2) = 3.000 HAW/HT(2) = .900 MACH = 7.9530 PO = 691.16 TO = .78000-01

DEPENDENT VARIABLE H/HO

SECTION (1) CHINE

ANGLE 30.0000

Y/L
.100 .1011
.150 .0902
.200 .0655

OH14 TABULATED SOURCE DATA

OH14 322075M4V7W111 ORBITER FUSELAGE CHINE

(PQ:M05)

HO = 1447.4 HO = .92000-01

TO = 973.32

PO = 7.9350

MACH = 7.9350

HAW/HT(1) =

PNL 3 = 4.000

DEPENDENT VARIABLE H/HO

SECTION 1 CHINE

ANGLE 30.0000

100
1000
10000
100000
1000000

PNL 3 = 4.000

HAW/HT(2) =

PO = 7.9350

TO = 973.32

HO = 1447.4

HO = .92000-01

DEPENDENT VARIABLE H/HO

SECTION 1 CHINE

ANGLE 30.0000

100
1000
10000
100000
1000000

PNL 3 = 5.000

HAW/HT(1) =

PO = 8.0210

TO = 1209.7

HO = 1433.1

HO = .10100

DEPENDENT VARIABLE H/HO

SECTION 1 CHINE

ANGLE 30.0000

100
1000
10000
100000
1000000

PNL 3 = 5.000

HAW/HT(2) =

PO = 8.0210

TO = 1209.7

HO = 1433.1

HO = .10100

DEPENDENT VARIABLE H/HO

SECTION 1 CHINE

ANGLE 30.0000

100
1000
10000
100000
1000000

OH14 TABULATED SOURCE DATA

OH14 B22C7F5M4V7M111 ORBITER FUSELAGE CHINE (ROLH05)

DATE 09 JUL 76

HO = .11100

TO

PO = 1431.9

HO

.850 MACH = 8.0470

PN/L (5) = 6.000 HAM/HT(1) =

SECTION (1) CHINE

ANGLE 30.0000

X/L
.100 .1200
.150 .1085
.200 .0771

PN/L (5) = 6.000 HAM/HT(2) =

SECTION (1) CHINE

ANGLE 30.0000

X/L
.100 .1007
.150 .0912
.200 .0652

PN/L (5) = 8.000 HAM/HT(1) =

SECTION (1) CHINE

ANGLE 30.0000

Y/L
.100 .1262
.150 .1146
.200 .0822

PN/L (6) = 8.000 HAM/HT(2) =

SECTION (1) CHINE

ANGLE 30.0000

Y/L
.100 .1051
.150 .0957
.200 .0691

HO = .11100

TO

PO = 1431.9

HO

.900 MACH = 8.0470

PN/L (5) = 6.000 HAM/HT(1) =

SECTION (1) CHINE

ANGLE 30.0000

X/L
.100 .1007
.150 .0912
.200 .0652

PN/L (5) = 8.000 HAM/HT(1) =

SECTION (1) CHINE

ANGLE 30.0000

Y/L
.100 .1262
.150 .1146
.200 .0822

PN/L (6) = 8.000 HAM/HT(2) =

SECTION (1) CHINE

ANGLE 30.0000

Y/L
.100 .1051
.150 .0957
.200 .0691

HO = .12800

TO

PO = 2031.3

HO

.850 MACH = 8.0810

PN/L (5) = 8.000 HAM/HT(1) =

SECTION (1) CHINE

ANGLE 30.0000

Y/L
.100 .1262
.150 .1146
.200 .0822

PN/L (6) = 8.000 HAM/HT(2) =

SECTION (1) CHINE

ANGLE 30.0000

Y/L
.100 .1051
.150 .0957
.200 .0691

HO = .12800

TO

PO = 2031.3

HO

.900 MACH = 8.0810

PN/L (5) = 8.000 HAM/HT(1) =

SECTION (1) CHINE

ANGLE 30.0000

Y/L
.100 .1262
.150 .1146
.200 .0822

PN/L (6) = 8.000 HAM/HT(2) =

SECTION (1) CHINE

ANGLE 30.0000

Y/L
.100 .1051
.150 .0957
.200 .0691

HO = .1431.7

TO

PO = 1431.7

HO

.900 MACH = 8.0810

PN/L (5) = 8.000 HAM/HT(1) =

SECTION (1) CHINE

ANGLE 30.0000

Y/L
.100 .1262
.150 .1146
.200 .0822

PN/L (6) = 8.000 HAM/HT(2) =

SECTION (1) CHINE

ANGLE 30.0000

Y/L
.100 .1051
.150 .0957
.200 .0691

OH14 TABULATED SOURCE DATA

DATE 09 JUL 76

OH14 B22C7F5M4V7W111 CR3:TER FUSELAGE C/LINE (POLW05)

RN/L 1 71 = 10.000 HAW/WT(1) = .850 MACH = 8.1050 PO = 2522.2 YO = 1428.4 HQ = .14200

DEPENDENT VARIABLE H/HQ

SECTION 1: LINE

ANGLE 30.0000

X/L
100 .1234
150 .1208
200 .1192

RN/L 71 = 0.000 HAW/WT(2) = .900 MACH = 8.1050 PO = 2522.2 YO = 1428.4 HQ = .14200

DEPENDENT VARIABLE H/HQ

SECTION 1: LINE

ANGLE 30.0000

Y
100 .1234
150 .1208
200 .1192

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 98

OH14 B22C7F5M4V7M111 FUSCLAGE LOWER SURFACE

(OOLB02) (21 JUN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
LREF = 1290.3000 IN. YMRP = .0000
BREF = 1290.3000 IN. ZMRP = .0000
SCALE = .0000

PARAMETRIC DATA

ALPHA = 0.000 BETA = .000
MACH = 8.000

R.N/L (1) = 1.000 MACH (1) = 7.812 MACH = 7.8120 PO = 238.51 TO = 1294.4 HO = .42000-01

SECTION (1) BOTTOM

B.P. .0000117.0000

X/L

.025 3.9336
.050 2.5792
.075 2.1492
.100 1.8228
.125 1.5611
.150
.175 1.2498
.200 1.1251
.250 .9673
.300 .9683
.350 .6310 .9161
.400 .7950
.450 .7562
.500 .7484 1.1764
.550
.600 .5915 1.0184
.650 .5425
.700
.750 .5048
.800 .4251 .7454
.850 .4725
.900 .3988 .6131
.950 .3417
1.000 .2616 .5083
1.050 .2120

R.N/L (2) = 3.000 MACH (1) = 7.955 MACH = 7.9550 PO = 700.49 TO = 1388.8 HO = .79000-01

SECTION (1) BOTTOM

B.P. .0000117.0000

X/L

.025 7.4309
.050 5.0223
.075 4.2583
.100 3.5554
.125 3.1558

DATE 03 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 99

(COLB02)

OH14 B22C7F5M4V7M111 FUSELAGE LOWER SURFACE

RN/L (2) = 3.000 MACH (1) = 7.955

SECTION (1) BOTTOM DEPENDENT VARIABLE QDOT

B.P. .000017.0000

X/L
.150
.175 2.4005
.200 2.2088
.250 1.8859
.300 1.5463
.350 1.2597
.400 1.0241
.450 1.3355
.500 2.3459
.550
.600 1.1821
.650
.700
.750 2.715
.800 1.6285
.850 1.8208
.900 1.3279
.950 1.6515
1.000 1.5514
1.050 1.4203

RN/L (3) = 6.000 MACH (1) = 8.044 MACH = 8.044 PO = 1471.1 TO = 1433.1 HC = .11100

SECTION (1) BOTTOM DEPENDENT VARIABLE QDOT

B.P. .000017.0000

X/L
.025 10.4559
.050 7.3913
.075 6.3583
.100 5.4425
.125 4.7241
.150
.175 7.0523
.200 3.5719
.250 2.1451
.300 2.7591
.350 1.8171
.400 2.0650
.450 1.5507
.500 1.9017
.550
.600 1.8172
.650
.700 2.8108

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DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 100

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

(00L802)

RN/L (3) = 6.000 MACH (1) = 8.044

SECTION (1) BOTTOM

DEPENDENT VARIABLE QDOT

B.P. .0000117.0000

X/L
.700 2.4831
.750 1.5759
.800 1.4182 2.3396
.850 1.9360
.900 1.9191 2.0406
.950 1.8245
1.000 1.7188 1.7099
1.040 1.3969

RN/L (4) = 8.000 MACH (1) = 8.081

PO

= 2027.9

TO

= 1427.2

HO

= .12900

SECTION (1) BOTTOM

DEPENDENT VARIABLE QDOT

B.P. .0000117.0000

X/L
.325 11.7820
.350 8.4077
.375 7.3505
.400 6.3663
.425 5.5074
.450
.475 4.1990
.500 3.8749
.525 3.3331
.550 2.8746
.575 2.2298 3.1925
.600 2.7453
.625 2.1825
.650 2.2936 3.8878
.675
.700 2.0021 3.3777
.725
.750 3.2614
.775 2.0284
.800 2.2629 3.5556
.825 3.6533
.850 3.9389 3.5241
.875 3.8261
1.000 3.8340 3.4927
1.040 2.9699

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 01

OH14 B22C7F5H4V7W111 WING LOWER SURFACE

(QQLW02) (2 JUL 75

REFERENCE DATA

SPEE = 2690 3000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000
 BREF = 1290.3000 IN. ZMRP = .0000
 SCALE = .0050

PARAMETRIC DATA

ALPHA = 20.000 BETA = 000
 MACH = 8.000

P0/L () = 1.000 MACH () = 7.812 MACH = 7.8120 P0 = 238.51 T0 = 1294.4 HQ = -5000.00

SECTION (LIVING

DEPENDENT VARIABLE QDOT

27/B .4000 .6000 .8000

X/C

.050 2.0936
 .100 2.0213
 .150 1.9459
 .200 1.8683
 .250 1.7895
 .300 1.7095
 .350 1.6283
 .400 1.5459
 .450 1.4623
 .500 1.3779
 .550 1.2929
 .600 1.2079
 .650 1.1229
 .700 1.0379
 .750 .9529
 .800 .8679
 .850 .7829
 .900 .6979
 .950 .6129
 .000 .5279

P0/L () = 3.000 MACH () = 7.955 MACH = 7.9550 P0 = 700.49 T0 = 1388.8 HQ = -5000.00

SECTION (LIVING

DEPENDENT VARIABLE QDOT

27/B .4000 .6000 .8000

X/C

.050 3.9915
 .100 3.9229
 .150 3.8543
 .200 3.7857
 .250 3.7171
 .300 3.6485
 .350 3.5799
 .400 3.5113
 .450 3.4427
 .500 3.3741
 .550 3.3055
 .600 3.2369
 .650 3.1683
 .700 3.1000
 .750 3.0313
 .800 2.9627
 .850 2.8941
 .900 2.8255
 .950 2.7569
 .000 2.6883

DATE 09 JUL 75

OH14 TABULATED SOURCE DATA

PAGE 102

OH14 B22C7F5M4V7H111 WING LOWER SURFACE

(OQLW02)

RN/L (3) = 6.000 MACH (1) = 8.044 MACH = 8.044 PO = 1471.1 TO = 1433.1 HQ = .11100

SECTION (1) WING

DEPENDENT VARIABLE QDOT

2Y/B .4000 .6000 .8000

X/C

.050 5.7673
.100 6.0076 5.8815
.200 4.5601 5.3079
.300 3.2188 4.7521
.400 2.7177 3.9104 6.1030
.500 2.4715 6.0196
.600 2.2074 6.1381 6.0935
.700 2.0101 5.9305
.800 1.7624..... 5.3807
.900 1.2324 3.6845

RN/L (4) = 8.000 MACH (1) = 8.081 MACH = 8.081 PO = 2027.9 TO = 1427.2 HQ = .12900

SECTION (1) WING

DEPENDENT VARIABLE QDOT

2Y/B .4000 .6000 .8000

X/C

.050 7.1213
.100 6.7107 7.0522
.200 5.4082 6.7546
.300 4.1687 7.1278
.400 3.7343 5.9132 7.7322
.500 3.5628 6.4913
.600 3.0894 8.7645 7.6131
.700 2.9424 8.2064
.800 2.6975..... 6.5329
.900 1.8285 5.0241

DATE 09 JUL 75

CHI4 TABULATED SOURCE DATA

PAGE 103

CHI4 B22C7F514V7W111 FUSELAGE UPPER SURFACE

(QDL502) (21 JUN 75

REFERENCE DATA

SPEC = 2630.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000
 BREF = 1290.3000 IN. ZMRP = .0000
 SCALE = .0060

PARAMETRIC DATA

ALPHA = 20.000 BETA = .000
 MACH = 8.000

PVAL (1) = 1.000 MACH (1) = 7.812 MACH = 7.8120 PO = 238.51 TO = 1294.4 HO = .46000-01

SECTION 1 (1) TOP

DEPENDENT VARIABLE QDOT

| Y | X | QDOT |
|-------|---------|---------|
| 1.700 | .3000 | .4250 |
| 1.700 | .4000 | .6000 |
| 1.700 | .5000 | .7000 |
| 1.700 | .6000 | .8250 |
| 1.700 | .7000 | .9500 |
| 1.700 | .8000 | 1.0750 |
| 1.700 | .9000 | 1.2000 |
| 1.700 | 1.0000 | 1.3250 |
| 1.700 | 1.1000 | 1.4500 |
| 1.700 | 1.2000 | 1.5750 |
| 1.700 | 1.3000 | 1.7000 |
| 1.700 | 1.4000 | 1.8250 |
| 1.700 | 1.5000 | 1.9500 |
| 1.700 | 1.6000 | 2.0750 |
| 1.700 | 1.7000 | 2.2000 |
| 1.700 | 1.8000 | 2.3250 |
| 1.700 | 1.9000 | 2.4500 |
| 1.700 | 2.0000 | 2.5750 |
| 1.700 | 2.1000 | 2.7000 |
| 1.700 | 2.2000 | 2.8250 |
| 1.700 | 2.3000 | 2.9500 |
| 1.700 | 2.4000 | 3.0750 |
| 1.700 | 2.5000 | 3.2000 |
| 1.700 | 2.6000 | 3.3250 |
| 1.700 | 2.7000 | 3.4500 |
| 1.700 | 2.8000 | 3.5750 |
| 1.700 | 2.9000 | 3.7000 |
| 1.700 | 3.0000 | 3.8250 |
| 1.700 | 3.1000 | 3.9500 |
| 1.700 | 3.2000 | 4.0750 |
| 1.700 | 3.3000 | 4.2000 |
| 1.700 | 3.4000 | 4.3250 |
| 1.700 | 3.5000 | 4.4500 |
| 1.700 | 3.6000 | 4.5750 |
| 1.700 | 3.7000 | 4.7000 |
| 1.700 | 3.8000 | 4.8250 |
| 1.700 | 3.9000 | 4.9500 |
| 1.700 | 4.0000 | 5.0750 |
| 1.700 | 4.1000 | 5.2000 |
| 1.700 | 4.2000 | 5.3250 |
| 1.700 | 4.3000 | 5.4500 |
| 1.700 | 4.4000 | 5.5750 |
| 1.700 | 4.5000 | 5.7000 |
| 1.700 | 4.6000 | 5.8250 |
| 1.700 | 4.7000 | 5.9500 |
| 1.700 | 4.8000 | 6.0750 |
| 1.700 | 4.9000 | 6.2000 |
| 1.700 | 5.0000 | 6.3250 |
| 1.700 | 5.1000 | 6.4500 |
| 1.700 | 5.2000 | 6.5750 |
| 1.700 | 5.3000 | 6.7000 |
| 1.700 | 5.4000 | 6.8250 |
| 1.700 | 5.5000 | 6.9500 |
| 1.700 | 5.6000 | 7.0750 |
| 1.700 | 5.7000 | 7.2000 |
| 1.700 | 5.8000 | 7.3250 |
| 1.700 | 5.9000 | 7.4500 |
| 1.700 | 6.0000 | 7.5750 |
| 1.700 | 6.1000 | 7.7000 |
| 1.700 | 6.2000 | 7.8250 |
| 1.700 | 6.3000 | 7.9500 |
| 1.700 | 6.4000 | 8.0750 |
| 1.700 | 6.5000 | 8.2000 |
| 1.700 | 6.6000 | 8.3250 |
| 1.700 | 6.7000 | 8.4500 |
| 1.700 | 6.8000 | 8.5750 |
| 1.700 | 6.9000 | 8.7000 |
| 1.700 | 7.0000 | 8.8250 |
| 1.700 | 7.1000 | 8.9500 |
| 1.700 | 7.2000 | 9.0750 |
| 1.700 | 7.3000 | 9.2000 |
| 1.700 | 7.4000 | 9.3250 |
| 1.700 | 7.5000 | 9.4500 |
| 1.700 | 7.6000 | 9.5750 |
| 1.700 | 7.7000 | 9.7000 |
| 1.700 | 7.8000 | 9.8250 |
| 1.700 | 7.9000 | 9.9500 |
| 1.700 | 8.0000 | 10.0750 |
| 1.700 | 8.1000 | 10.2000 |
| 1.700 | 8.2000 | 10.3250 |
| 1.700 | 8.3000 | 10.4500 |
| 1.700 | 8.4000 | 10.5750 |
| 1.700 | 8.5000 | 10.7000 |
| 1.700 | 8.6000 | 10.8250 |
| 1.700 | 8.7000 | 10.9500 |
| 1.700 | 8.8000 | 11.0750 |
| 1.700 | 8.9000 | 11.2000 |
| 1.700 | 9.0000 | 11.3250 |
| 1.700 | 9.1000 | 11.4500 |
| 1.700 | 9.2000 | 11.5750 |
| 1.700 | 9.3000 | 11.7000 |
| 1.700 | 9.4000 | 11.8250 |
| 1.700 | 9.5000 | 11.9500 |
| 1.700 | 9.6000 | 12.0750 |
| 1.700 | 9.7000 | 12.2000 |
| 1.700 | 9.8000 | 12.3250 |
| 1.700 | 9.9000 | 12.4500 |
| 1.700 | 10.0000 | 12.5750 |
| 1.700 | 10.1000 | 12.7000 |
| 1.700 | 10.2000 | 12.8250 |
| 1.700 | 10.3000 | 12.9500 |
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| 1.700 | 10.5000 | 13.2000 |
| 1.700 | 10.6000 | 13.3250 |
| 1.700 | 10.7000 | 13.4500 |
| 1.700 | 10.8000 | 13.5750 |
| 1.700 | 10.9000 | 13.7000 |
| 1.700 | 11.0000 | 13.8250 |
| 1.700 | 11.1000 | 13.9500 |
| 1.700 | 11.2000 | 14.0750 |
| 1.700 | 11.3000 | 14.2000 |
| 1.700 | 11.4000 | 14.3250 |
| 1.700 | 11.5000 | 14.4500 |
| 1.700 | 11.6000 | 14.5750 |
| 1.700 | 11.7000 | 14.7000 |
| 1.700 | 11.8000 | 14.8250 |
| 1.700 | 11.9000 | 14.9500 |
| 1.700 | 12.0000 | 15.0750 |
| 1.700 | 12.1000 | 15.2000 |
| 1.700 | 12.2000 | 15.3250 |
| 1.700 | 12.3000 | 15.4500 |
| 1.700 | 12.4000 | 15.5750 |
| 1.700 | 12.5000 | 15.7000 |
| 1.700 | 12.6000 | 15.8250 |
| 1.700 | 12.7000 | 15.9500 |
| 1.700 | 12.8000 | 16.0750 |
| 1.700 | 12.9000 | 16.2000 |
| 1.700 | 13.0000 | 16.3250 |
| 1.700 | 13.1000 | 16.4500 |
| 1.700 | 13.2000 | 16.5750 |
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| 1.700 | 13.4000 | 16.8250 |
| 1.700 | 13.5000 | 16.9500 |
| 1.700 | 13.6000 | 17.0750 |
| 1.700 | 13.7000 | 17.2000 |
| 1.700 | 13.8000 | 17.3250 |
| 1.700 | 13.9000 | 17.4500 |
| 1.700 | 14.0000 | 17.5750 |
| 1.700 | 14.1000 | 17.7000 |
| 1.700 | 14.2000 | 17.8250 |
| 1.700 | 14.3000 | 17.9500 |
| 1.700 | 14.4000 | 18.0750 |
| 1.700 | 14.5000 | 18.2000 |
| 1.700 | 14.6000 | 18.3250 |
| 1.700 | 14.7000 | 18.4500 |
| 1.700 | 14.8000 | 18.5750 |
| 1.700 | 14.9000 | 18.7000 |
| 1.700 | 15.0000 | 18.8250 |
| 1.700 | 15.1000 | 18.9500 |
| 1.700 | 15.2000 | 19.0750 |
| 1.700 | 15.3000 | 19.2000 |
| 1.700 | 15.4000 | 19.3250 |
| 1.700 | 15.5000 | 19.4500 |
| 1.700 | 15.6000 | 19.5750 |
| 1.700 | 15.7000 | 19.7000 |
| 1.700 | 15.8000 | 19.8250 |
| 1.700 | 15.9000 | 19.9500 |
| 1.700 | 16.0000 | 20.0750 |
| 1.700 | 16.1000 | 20.2000 |
| 1.700 | 16.2000 | 20.3250 |
| 1.700 | 16.3000 | 20.4500 |
| 1.700 | 16.4000 | 20.5750 |
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| 1.700 | 16.7000 | 20.9500 |
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| 1.700 | 18.0000 | 22.5750 |
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| 1.700 | 18.7000 | 23.4500 |
| 1.700 | 18.8000 | 23.5750 |
| 1.700 | 18.9000 | 23.7000 |
| 1.700 | 19.0000 | 23.8250 |
| 1.700 | 19.1000 | 23.9500 |
| 1.700 | 19.2000 | 24.0750 |
| 1.700 | 19.3000 | 24.2000 |
| 1.700 | 19.4000 | 24.3250 |
| 1.700 | 19.5000 | 24.4500 |
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| 1.700 | 19.7000 | 24.7000 |
| 1.700 | 19.8000 | 24.8250 |
| 1.700 | 19.9000 | 24.9500 |
| 1.700 | 20.0000 | 25.0750 |
| 1.700 | 20.1000 | 25.2000 |
| 1.700 | 20.2000 | 25.3250 |
| 1.700 | 20.3000 | 25.4500 |
| 1.700 | 20.4000 | 25.5750 |
| 1.700 | 20.5000 | 25.7000 |
| 1.700 | 20.6000 | 25.8250 |
| 1.700 | 20.7000 | 25.9500 |
| 1.700 | 20.8000 | 26.0750 |
| 1.700 | 20.9000 | 26.2000 |
| 1.700 | 21.0000 | 26.3250 |
| 1.700 | 21.1000 | 26.4500 |
| 1.700 | 21.2000 | 26.5750 |
| 1.700 | 21.3000 | 26.7000 |
| 1.700 | 21.4000 | 26.8250 |
| 1.700 | 21.5000 | 26.9500 |
| 1.700 | 21.6000 | 27.0750 |
| 1.700 | 21.7000 | 27.2000 |
| 1.700 | 21.8000 | 27.3250 |
| 1.700 | 21.9000 | 27.4500 |
| 1.700 | 22.0000 | 27.5750 |
| 1.700 | 22.1000 | 27.7000 |
| 1.700 | 22.2000 | 27.8250 |
| 1.700 | 22.3000 | 27.9500 |
| 1.700 | 22.4000 | 28.0750 |
| 1.700 | 22.5000 | 28.2000 |
| 1.700 | 22.6000 | 28.3250 |
| 1.700 | 22.7000 | 28.4500 |
| 1.700 | 22.8000 | 28.5750 |
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| 1.700 | 23.1000 | 28.9500 |
| 1.700 | 23.2000 | 29.0750 |
| 1.700 | 23.3000 | 29.2000 |
| 1.700 | 23.4000 | 29.3250 |
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| 1.700 | 24.1000 | 30.2000 |
| 1.700 | 24.2000 | 30.3250 |
| 1.700 | 24.3000 | 30.4500 |
| 1.700 | 24.4000 | 30.5750 |
| 1.700 | 24.5000 | 30.7000 |
| 1.700 | 24.6000 | 30.8250 |
| 1.700 | 24.7000 | 30.9500 |
| 1.700 | 24.8000 | 31.0750 |
| 1.700 | 24.9000 | 31.2000 |
| 1.700 | 25.0000 | 31.3250 |
| 1.700 | 25.1000 | 31.4500 |
| 1.700 | 25.2000 | 31.5750 |
| 1.700 | 25.3000 | 31.7000 |
| 1.700 | 25.4000 | 31.8250 |
| 1.700 | 25.5000 | 31.9500 |
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| 1.700 | 25.7000 | 32.2000 |
| 1.700 | 25.8000 | 32.3250 |
| 1.700 | 25.9000 | 32.4500 |
| 1.700 | 26.0000 | 32.5750 |
| 1.700 | 26.1000 | 32.7000 |
| 1.700 | 26.2000 | 32.8250 |
| 1.700 | 26.3000 | 32.9500 |
| 1.700 | 26.4000 | 33.0750 |
| 1.700 | 26.5000 | 33.2000 |
| 1.700 | 26.6000 | 33.3250 |
| 1.700 | 26.7000 | 33.4500 |
| 1.700 | 26.8000 | 33.5750 |
| 1.700 | 26.9000 | 33.7000 |
| 1.700 | 27.0000 | 33.8250 |
| 1.700 | 27.1000 | 33.9500 |
| 1.700 | | |

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 104

OH14 822C7F5M4V7W111 FUSELAGE UPPER SURFACE (QQL502)
PN/L (4) = 8.000 MACH (1) = 8.081 MACH = 8.0810 PO = 2027.9 TO = 1427.2 HO = .12900
SECTION (1) TOP
X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250
W.P.
375.000 1.2392 2.4752 2.0641 2.1172 1.5669 .6942
400.000 .7427 1.1542 1.7422 2.3475 1.9550 2.8440
425.000
465.000
500.000 2.3464 .2504 .6104 .7200 .7247 .4147

DATE 09 JUL 75

OH14 TABULATED SOURCE DATA

PAGE 105

OH14 B22C7F5M4V7W111 ORBITER FUSELAGE CHINE

(00LM02) (21 JUN 76)

REFERENCE DATA

SREF = 2650.0000 SQ.FT. XMRP = .0000 IN.
LREF = 1230.3000 IN. YMRP = .0000
BREF = 1290.3000 IN. ZMRP = .0000
SCALE = .0050

RN/L (1) = 1.000 MACH (1) = 7.812 MACH = 7.8120 PO = 238.51 TO = 1294.4 HO = .46000-01

SECTION 1 CHINE

DEPENDENT VARIABLE 0001

ANGLE 30.0000

X
1.00 2.5788
150 2.0444
300 1.3235

RN/L (2) = 3.000 MACH (1) = 7.955 MACH = 7.9550 PO = 700.49 TO = 1389.8 HO = .79000-01

SECTION 1 CHINE

DEPENDENT VARIABLE 0001

ANGLE 30.0000

X
1.00 5.6008
150 4.0905
300 2.7489

RN/L (3) = 5.000 MACH (1) = 8.044 MACH = 8.0440 PO = 1471.1 TO = 1433.1 HO = .11100

SECTION 1 CHINE

DEPENDENT VARIABLE 0001

ANGLE 30.0000

X
1.00 7.2552
150 5.2150
300 4.1162

RN/L (4) = 8.000 MACH (1) = 8.081 MACH = 8.0810 PO = 2027.9 TO = 1427.2 HO = .12900

SECTION 1 CHINE

DEPENDENT VARIABLE 0001

ANGLE 30.0000

X
1.00 9.2732
150 6.9233
300 5.7893

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 106

OH14 B22C7F5H4V7W111 FUSELAGE LOWER SURFACE

(QDLB03) (21 JUN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
LREF = 1290.3000 IN. YMRP = .0000
BREF = 1290.3000 IN. ZMRP = .0000
SCALE = .0060

PARAMETRIC DATA

ALPHA = 25.000 BETA = .000
MACH = 8.000

RN/L (1) = 1.000 MACH (1) = 7.803 MACH = 7.8030 P0 = 224.18 T0 = 1259.0 H0 = .44000-01

SECTION (1) BOTTOM

DEPENDENT VARIABLE QDOT

B.P. .000017.0000

X/L
.025 3.5889
.050 2.4188
.075 2.1298
.100 1.8454
.125 1.6322
.150
.175 1.3156
.200 1.2228
.250 1.0659
.300 .9627
.350 .7587
.400 .8744
.450 .8259
.500 .8213
.550
.600 .7210
.650 .7194
.700
.750 .6800
.800 .5495
.850 .5375
.900 .4711
.950 .4452
1.000 .3740
1.040 .2729

RN/L (2) = 3.000 MACH (1) = 7.959 MACH = 7.9590 P0 = 720.71 T0 = 1370.5 H0 = .79000-01

SECTION (1) BOTTOM

DEPENDENT VARIABLE QDOT

B.P. .000017.0000

X/L
.025 7.2951
.050 5.2494
.075 4.6351
.100 4.0436
.125 3.6509

DATE 03 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 107

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

(0001803)

PNL (2) = 3.000 MACH (1) = 7.959

SECTION 1 BOTTOM

DEPENDENT VARIABLE QDOT

B.P. .000017.0000

XZ
150
1.00 2.0270
1.00 2.0570
1.00 2.0820
1.00 2.1080
1.00 2.1350
1.00 2.1620
1.00 2.1890
1.00 2.2160
1.00 2.2430
1.00 2.2700
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1.00 13.4480
1.00 13.4750
1.00 13.5020
1.00 13.5290
1.00 13.5560
1.00 13.5830
1.00 13.6100
1.00 13.6370
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1.00 13.6910
1.00 13.7180
1.00 13.7450
1.00 13.7720
1.00 13.7990
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1.00 13.9340
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1.00 13.9880
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1.00 14.0690
1.00 14.0960
1.00 14.1230
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1.00 14.2040
1.00 14.2310
1.00 14.2580
1.00 14.2850
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1.00 14.3390
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1.00 14.3930
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1.00 14.4470
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1.00 14.5280
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1.00 14.6360
1.00 14.6630
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1.00 14.7170
1.00 14.7440
1.00 14.7710
1.00 14.7980
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1.00 14.8790
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1.00 15.5540
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1.00 15.6080
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1.00 15.7160
1.00 15.7430
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1.00 15.7970
1.00 15.8240
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1.00 15.9590
1.00 15.9860
1.00 16.0130
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1.00 18.9560
1.00 18.9830
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1.00 19.1720
1.00 19.1990
1.00 19.2260
1.00 19.2530
1.00 19.2800
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1.00 25.3280
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1.00 25.4360
1.00 25.4630
1.00 25.4900
1.00 25.5170
1.00 25.5440
1.00 25.5710
1.00 25.5980
1.00 25.6

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 109

(00LB03)

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

RN/L (3) = 4.000 MACH (1) = 7.996

SECTION (1) BOTTOM DEPENDENT VARIABLE QDOT

B.P. .0000117.0000

| X/L | QDOT |
|-------|--------|
| .700 | 2.5141 |
| .750 | 2.0549 |
| .800 | 1.7719 |
| .850 | 3.4996 |
| .900 | 2.1585 |
| .950 | 1.9504 |
| .990 | 3.8431 |
| 1.000 | 1.7165 |
| 1.020 | 1.6511 |
| 1.040 | 3.2419 |
| 1.060 | 1.3543 |

RN/L (4) = 5.000 MACH (1) = 8.022 MACH = 8.022 PO = 1218.8 TO = 1393.5 MO = .10200

SECTION (1) BOTTOM DEPENDENT VARIABLE QDOT

B.P. .0000117.0000

| X/L | QDOT |
|-------|--------|
| .025 | 9.6433 |
| .050 | 7.2425 |
| .075 | 6.4219 |
| .100 | 5.5609 |
| .125 | 4.8581 |
| .150 | ..... |
| .175 | 3.9183 |
| .200 | 3.6569 |
| .250 | 3.2548 |
| .300 | 2.8808 |
| .350 | 2.2755 |
| .400 | 2.7115 |
| .450 | 2.5714 |
| .500 | 2.4187 |
| .550 | 2.3309 |
| .600 | 2.2708 |
| .650 | 2.1272 |
| .700 | 2.0324 |
| .750 | 2.0935 |
| .800 | 2.6541 |
| .850 | 2.4634 |
| .900 | 2.3515 |
| .950 | 3.7938 |
| .990 | 2.9036 |
| 1.000 | 3.6693 |
| 1.020 | 4.4191 |
| 1.040 | 3.2433 |
| 1.060 | 3.4440 |
| 1.080 | 3.1594 |
| 1.100 | 2.7547 |

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 110

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

(001B03)

PN/L (6) = 8.000 MACH (1) = 8.081

SECTION (1) BOTTOM

DEPENDENT VARIABLE QDOT

B.P. .0000117.0000

X/L
.450 3.1276
.500 3.1109 1.1257
.550
.600 2.9339 3.6357
.650 2.9457
.700 3.6370
.750 4.9287
.800 5.2110 5.8130
.850 6.5793
.900 5.7041 4.6235
.950 5.1852
1.000 5.6884 5.0583
1.040 4.7332

PN/L (7) = 10.000 MACH (1) = 8.106 MACH = 8.1060 PO = 2530.9 TO = 1447.3 MC = .14300

SECTION (1) BOTTOM

DEPENDENT VARIABLE QDOT

B.P. .0000117.0000

X/L
.025 13.4202
.050 10.4151
.075 9.3902
.100 8.3431
.125 7.4441
.150
.175 6.5931
.200 5.6401
.250 5.0552
.300 4.7418
.350 3.9916
.400 3.9343
.450 3.6573
.500 3.6535 4.6442
.550
.600 3.5802 4.3228
.650 3.4111
.700 5.0048
.750 4.9805
.800 4.8550 5.4735
.850 4.7470
.900 4.6331 5.8119
.950 4.5111
1.000 4.3718 5.9713

PAGE 111

(02LB03)

CH14 TABULATED SOURCE DATA
CH14 B22C7FSM-VTM111 FUSELAGE LOWER SURFACE

8.106

DEPENDENT VARIABLE C00T

DATE 03 JUL 76

FN L (7) = 10.000 MACH (1) =

SECTION (1) BOTTOM

B P. .000017.0000

Y 1.040 6.1125

ORIGINAL PAGE IS
OF POOR QUALITY

27

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 112

OH14 B22C7F5M4V7M111 WING LOWER SURFACE

(02LW03) (21 JUN 76)

REFERENCE DATA

SREF = 2830.000 SQ.FT. XMRP =
LREF = 1290.300 IN. YMRP =
BREF = 1290.300 IN. ZMRP =
SCALE = .0050

PARAMETRIC DATA

ALPHA = 25.000 BETA = .000
MACH = 8.000

PR/L (1) = 1.000 MACH (1) = 7.803 MACH = 7.8030 PO = 224.18 TO = 1259.0 HQ = .44000-01

DEPENDENT VARIABLE COOT

SECTION (1) WING

2Y/B .4000 .6000 .8000

X/C

.050 1.9056
.100 1.8757 1.8793
.200 1.4280 1.7293
.300 1.3133 1.5573
.400 .9373 1.3290 1.3755
.500 .7814 1.2591
.600 .7040 1.1534 1.0297
.700 .6467 1.0449
.800 .50928098
.900 .3835 .5997

PR/L (2) = 3.000 MACH (1) = 7.959 MACH = 7.9590 PO = 720.71 TO = 1370.5 HQ = .79000-01

DEPENDENT VARIABLE COOT

SECTION (1) WING

2Y/B .4000 .6000 .8000

X/C

.050 3.8443
.100 3.9337 4.2535
.200 3.0915 3.8557
.300 2.1553 3.2557
.400 1.7350 3.0192 3.1927
.500 1.5148 2.9535
.600 1.4021 2.8807 2.5552
.700 1.2992 2.6493
.800 1.1428 2.1211
.900 .9047 1.5400

DATE 09 JUL 75

OH14 TABULATED SOURCE DATA

PAGE 113

OH14 B22C7F5M4V7W111 WING LOWER SURFACE (COLW03)

RN/L (3) = 4.000 MACH (1) = 7.996 MACH = 7.9960 PO = 977.05 TO = 1435.5 HO = .92000-0:

SECTION 1 1 WING DEPENDENT VARIABLE QDOT

2Y/B .4000 .6000 .8000

X/C

.050 3.9459
.100 4.9841 5.3317
.200 3.8379 4.6721
.300 2.8132 3.6875
.400 2.2952 3.4267 4.3271
.500 2.3201 2.8598
.600 1.9017 4.2448 3.8851
.700 1.8257 3.9338
.800 1.6181..... 3.5862
.900 1.1785 2.2439

RN/L (4) = 5.000 MACH (1) = 8.022 MACH = 8.0220 PO = 1218.8 TO = 1393.5 HO = .10200

SECTION 1 1 WING

2Y/B .4000 .6000 .8000

X/C

.050 4.6534
.100 5.1846 5.7651
.200 4.1271 5.3130
.300 2.9848 3.2457
.400 2.4046 3.3443 5.7341
.500 2.1033 3.9511
.600 1.9174 4.1519 5.4240
.700 1.7773 3.9852
.800 1.6070..... 4.9903
.900 1.3189 2.5439

RN/L (5) = 6.000 MACH (1) = 8.044 MACH = 8.0440 PO = 1471.1 TO = 1400.5 HO = .11100

SECTION 1 1 WING

2Y/B .4000 .6000 .8000

X/C

.050 5.3057
.100 5.6207 6.6085
.200 4.6273 6.5469
.300 3.3108 6.8938
.400 2.7453 5.0938 7.2593
.500 2.4311 5.4606
.600 2.2450 7.7182 7.1228
.700 2.1139 7.7785
.800 1.9330..... 6.7682

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 114

OH14 B22C7F5M4V7H111 WING LOWER SURFACE

(00LW03)

PN/L (5) = 6.000 MACH (1) = 8.044

SECTION (1) WING DEPENDENT VARIABLE QDOT

2Y/B .4000 .6000 .8000

X/C

.900 1.6130 4.8556

PN/L (6) = 8.000 MACH (1) = 8.081

MACH = 8.0810

PO

2022.0

TO

1395.1

W0

.12800

SECTION (1) WING DEPENDENT VARIABLE QDOT

2Y/B .4000 .6000 .8000

X/C

.050 5.9358
.100 6.4376 7.8295
.200 5.3113 8.1372
.300 4.3342 6.1840
.400 3.6746 6.2641 10.0856
.500 3.3941 6.6555
.600 2.9105 9.9505 10.2466
.700 2.8413 9.3264
.800 2.9774 8.5356
.900 2.4539 5.8606

PN/L (7) = 10.000 MACH (1) = 8.106

MACH = 8.1060

PO

2530.9

TO

1447.3

W0

.14300

SECTION (1) WING DEPENDENT VARIABLE QDOT

2Y/B .4000 .6000 .8000

X/C

.050 8.2015
.100 8.3385 9.1333
.200 7.3098 9.7119
.300 5.3873 7.4736
.400 4.5280 7.3373 8.8370
.500 4.3447 7.5356
.600 3.8496 7.7746 8.3779
.700 4.1805 10.4430
.800 4.4236 9.9154
.900 4.1142 6.7814

(COLS03) (21 JUN 76)

OH14 TABULATED SOURCE DATA
OH14 B22C7F5M4V7W11: FUSELAGE UPPER SURFACE

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
LREF = 1290.3000 IN. YMRP = .0000
BREF = 1290.3000 IN. ZMRP = .0000
SCALE = .0060

PARAMETRIC DATA

ALPHA = 25.000 BETA = .000
MACH = 8.000

PN/L (1) = 1.000 MACH (1) = 7.803 MACH = 7.8030 PO = 224.18 TO = 1259.0 HO = .44000-01

SECTION (1) TOP

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.
375.000 .2576 .3138 .3942 .1787 .1121 .0308
400.000 .1979 .3369 .3578 .3591 .1029
425.000 .55.000 .0327 .0528 .0559 .0502 .0313
501.000 .1879 .0327 .0528 .0559 .0502 .0313

R/L (2) = 3.000 MACH (1) = 7.996 MACH = 7.9960 PO = 720.71 TO = 1370.5 HO = .79000-01

SECTION (1) TOP

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.
375.000 .6780 .9149 .10937 .4776 .2576 .1381
400.000 .4063 .8440 .9875 .8125 .2705
425.000 .6591 .0835 .2022 .2144 .1826 .0878
501.000 .6591 .0835 .2022 .2144 .1826 .0878

PN/L (3) = 4.000 MACH (1) = 7.996 MACH = 7.9960 PO = 977.05 TO = 1435.5 HO = .92000-01

SECTION (1) TOP

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.
375.000 .8471 1.2245 1.4717 .6895 .3528 .2219
400.000 .5392 1.0603 1.3116 1.0842 .4265
425.000 .9380 .1235 .2834 .3430 .2294 .0968
501.000 .9380 .1235 .2834 .3430 .2294 .0968

ORIGINAL PAGE 18
OF POOR QUALITY

OH14 B22C7F5M4V7M111 FUSELAGE UPPER SURFACE (00LS03)

PN/L (4) = 5.000 MACH (1) = 8.022 MACH = 8.0220 PO = 1218.8 TO = 1393.5 HC = .10200

SECTION (1) TOP

DEPENDENT VARIABLE QDOT

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.

375.000 .9399 1.3916 1.6335 .7983 .3740 .2244
400.000
425.000 .5716 1.1515 1.6335 1.4506 1.2782 .5645
450.000 .2823
501.000 1.0711 .1288 .3237 .3720 .2787 .1084

PN/L (5) = 6.000 MACH (1) = 8.044 MACH = 8.0440 PO = 1471.1 TO = 1400.5 HC = .11100

SECTION (1) TOP

DEPENDENT VARIABLE QDOT

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.

375.000 1.0488 1.6255 1.8612 .9593 .4321 .2872
400.000
425.000 .6491 1.2725 1.8612 1.6456 1.5451 .7535
450.000 .4593
501.000 1.2873 .1835 .4023 .4702 .2974 .1252

PN/L (6) = 8.000 MACH (1) = 8.081 MACH = 8.0810 PO = 2022.0 TO = 1395.1 HC = .12800

SECTION (1) TOP

DEPENDENT VARIABLE QDOT

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.

375.000 1.2162 1.9614 2.1749 1.1584 .7182 .3493
400.000
425.000 .7795 1.4813 2.1749 1.8548 2.0348 1.1580
450.000 1.3570
501.000 1.7212 .2274 .5153 .5809 .3031 .1034

PN/L (7) = 10.000 MACH (1) = 8.106 MACH = 8.1060 PO = 2530.9 TO = 1447.3 HC = .14300

SECTION (1) TOP

DEPENDENT VARIABLE QDOT

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.

375.000 1.4655 2.3126 2.5527 1.4052 .8633 .4272
400.000
425.000 .8902 1.7908 2.5527 2.1448 2.5151 1.5901
450.000 2.5673
501.000 2.2228 .2933 .5235 .6464 .2902 .2355

OH14 TABULATED SOURCE DATA
OH14 B22C7F5M4V7W111 ORBITER FUSELAGE CHINE

DATE 09 JUL 76

(OOLM03) (21 JUN 76

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = .0000 IN.
LPEF = 1290.3000 IN. YMRP = .0000
BPEF = 1290.3000 IN. ZMRP = .0000
SCALE = .0050

PARAMETRIC DATA

ALPHA = 25.000 BETA = .000
MACH = 8.000

PN/L (1) = 1.000 MACH (1) = 7.803 MACH = 7.8030 P0 = 224.18 T0 = 1259.0 H0 = .44000-0

SECTION (1) CHINE
DEPENDENT VARIABLE QDOT

ANGLE 30.0000

X/L
.100 2.2974
.150 1.9359
.200 1.7317

PN/L (2) = 3.000 MACH (1) = 7.959 MACH = 7.9590 P0 = 720.71 T0 = 1370.5 H0 = .79000-0

SECTION (1) CHINE

ANGLE 30.0000

X/L
.100 4.9753
.150 4.2229
.200 2.9903

PN/L (3) = 4.000 MACH (1) = 7.936 MACH = 7.9360 P0 = 977.05 T0 = 1435.5 H0 = .92000-0

SECTION (1) CHINE

ANGLE 30.0000

X/L
.100 5.4538
.150 5.4534
.200 3.8203

PN/L (4) = 5.000 MACH (1) = 8.022 MACH = 8.0220 P0 = 1218.8 T0 = 1393.5 H0 = .10200

SECTION (1) CHINE

ANGLE 30.0000

X/L
.100 6.2859
.150 5.6441
.200 4.0774

OH14 TABULATED SOURCE DATA

OH14 B22C7F5M1V7W111 ORBITER FUSELAGE CHINE (OQLM03)

DATE 09 JUL 76

TO = 1471.1 HO = 1400.5 HO = .11100

RN/L (5) = 6.000 MACH (1) = 8.044 MACH = 8.044 PO = 2022.0

SECTION 11 CHINE

ANGLE 30.0000

X/L
.100 7.6250
.150 6.5818
.200 4.5810

RN/L (6) = 8.000 MACH (1) = 8.081 MACH = 8.081 PO = 1395.1 HO = .12500

SECTION 11 CHINE

ANGLE 30.0000

X
.100 8.929-
.150 7.470
.200 5.3150

RN/L (7) = 10.000 MACH (1) = 8.106 MACH = 8.106 PO = 2530.9 HO = .14300

SECTION 11 CHINE

ANGLE 30.0000

X/L
.100 9.3463
.150 8.6391
.200 6.2659

DEPENDENT VARIABLE QDOT

DEPENDENT VARIABLE QDOT

DEPENDENT VARIABLE QDOT

DATE 09 JUL 75

OH14 TABULATED SOURCE DATA

PAGE 120

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

(00L804)

PN/L (2) = 3.000 MACH (1) = 7.954

SECTION (1) BOTTOM

DEPENDENT VARIABLE QDOT

B.P. .000017.0000

X/L

150
.175 3.2551
.200 3.8469
.250 2.5931
.300 2.5708
.350 1.8678 1.9531
.400 2.1314
.450 2.0876
.500 2.4500 2.4517
.550
.600 1.8187 2.1022
.650 1.7561
.700
.750 1.7512 1.6543
.800 1.4516 1.4347
.850 1.8711
.900 1.7169 1.4938
.950 1.4172
1.000 1.2912 1.5493
1.050 1.2576
1.100 1.2576

PN/L 31 = 4.000 MACH (1) = 7.995 MACH = 7.9950 P0 = 977.05 T0 = 1427.4 H0 = .91000-01

SECTION (1) BOTTOM

DEPENDENT VARIABLE QDOT

B.P. .000017.0000

X/L

.125 1.9507
.150 1.9349
.175 1.9349
.200 5.0310
.250 5.8159
.300 5.1548
.350
.400 1.2209
.450 3.9825
.500 3.8173
.550 3.1533
.600 2.1177 2.6330
.650 2.6275
.700 2.7522
.750 2.7522
.800 2.0158 3.2335
.850
.900 2.9052 2.0207
.950 3.1453

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

(COL804)

OH14 B22C7F5M4V7M11 FUSELAGE LOWER SURFACE

RYL (3) = 4.000 MACH (1) = 7.996

SECTION (1) BOTTOM

DEPENDENT VARIABLE QDOT

B.P. .000017.0000

| | |
|-------|--------|
| Y/Z | |
| .700 | 2.5591 |
| .750 | 4.0552 |
| .800 | 3.7570 |
| .850 | 4.7307 |
| .900 | 4.3017 |
| .950 | 3.8319 |
| 1.000 | 3.5452 |
| 1.050 | 2.9849 |

RYL (4) = 4.500 MACH (1) = 8.008

MACH = 8.0080

PO = 1082.2

TO = 1423.5

HO = .95000-01

SECTION (1) BOTTOM

DEPENDENT VARIABLE QDOT

B.P. .000017.0000

| | |
|-------|--------|
| Y/Z | |
| .700 | 2.6851 |
| .750 | 4.0535 |
| .800 | 3.7540 |
| .850 | 5.2120 |
| .900 | 5.5561 |
| .950 | 4.5010 |
| 1.000 | 4.2291 |
| 1.050 | 3.8114 |
| 1.100 | 3.3709 |
| 1.150 | 3.6723 |
| 1.200 | 2.7952 |
| 1.250 | 3.1677 |
| 1.300 | 2.9228 |
| 1.350 | 2.9232 |
| 1.400 | 3.4479 |
| 1.450 | 2.9557 |
| 1.500 | 2.9176 |
| 1.550 | 2.5097 |
| 1.600 | 2.5553 |
| 1.650 | 2.9412 |
| 1.700 | 3.7716 |
| 1.750 | 3.0044 |
| 1.800 | 3.5077 |
| 1.850 | 2.9529 |
| 1.900 | 2.9834 |

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 122

OH14 B22075M4V7M111 FUSELAGE LOWER SURFACE (QQLB04)

PNL (5) = 5.000 MACH (1) = 8.023 MACH = 8.0230 PO = 1230.6 IO = 1433.1 HO = .10200

SECTION (1) BOTTOM

DEPENDENT VARIABLE QDOT

B.P. 0000117.0000

X/L

.025 7.2614
.050 7.0471
.075 7.0147
.100 6.2115
.125 5.6303
.150
.175 4.4682
.200 3.7771
.225 3.2501
.250 2.6002 2.6821
.275 3.0013
.300 3.0000
.325 3.4510
.350
.375 3.8105 3.2180
.400 3.4000
.425 3.3408
.450 5.6804
.475 5.6804 - 5935
.500 5.9103
.525 5.2641
.550 5.4438
.575 5.1045 4.2719
.600 4.0546

PNL (6) = 5.500 MACH (1) = 8.034 MACH = 8.0340 PO = 1350.0 IO = 1399.5 HO = .10600

SECTION (1) BOTTOM

DEPENDENT VARIABLE QDOT

B.P. 0000117.0000

X/L

.025 3.6156
.050 7.1687
.075 7.1221
.100 6.3372
.125 5.6225
.150
.175 4.4679
.200 4.2883
.250 3.8957
.300 3.4329
.350 2.5120 2.7835
.400 3.0798

DATE 09 JUL 76

0414 TABULATED SOURCE DATA

PAGE 123

0414 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

(001804)

RN/L (6) = 5.500 MACH (1) = 8.034

SECTION (1) BOTTOM

DEPENDENT VARIABLE ODOT

B.P. .000117.0000

| X/L | Y/L |
|-------|---------|
| .450 | 3.0895 |
| .500 | 3.3590 |
| .550 | 3.4947 |
| .600 | 3.5500 |
| .650 | 3.5714 |
| .700 | 3.5693 |
| .750 | 3.5329 |
| .800 | 3.4447 |
| .850 | 3.2129 |
| .900 | 2.8595 |
| .950 | 2.3289 |
| 1.000 | 1.6118 |
| 1.050 | 0.7334 |
| 1.100 | -0.2445 |
| 1.150 | -1.1642 |

RN/L (1) = 6.000 MACH (1) = 8.045

MACH = 8.0450

PC

= 1482.3

TO

= 1386.8

HO

= .11000

SECTION (1) BOTTOM

DEPENDENT VARIABLE ODOT

B.P. .000117.0000

| X/L | Y/L |
|--------|-----------|
| .425 | 2.3895 |
| .450 | 2.5979 |
| .475 | 2.7312 |
| .500 | 2.7926 |
| .525 | 2.7993 |
| .550 | 2.7447 |
| .575 | 2.6275 |
| .600 | 2.4500 |
| .625 | 2.2129 |
| .650 | 1.9193 |
| .675 | 1.5713 |
| .700 | 1.1706 |
| .725 | 0.7282 |
| .750 | 0.2449 |
| .775 | -0.2899 |
| .800 | -0.8193 |
| .825 | -1.3499 |
| .850 | -1.8799 |
| .875 | -2.4099 |
| .900 | -2.9399 |
| .925 | -3.4699 |
| .950 | -3.9999 |
| .975 | -4.5299 |
| 1.000 | -5.0599 |
| 1.025 | -5.5899 |
| 1.050 | -6.1199 |
| 1.075 | -6.6499 |
| 1.100 | -7.1799 |
| 1.125 | -7.7099 |
| 1.150 | -8.2399 |
| 1.175 | -8.7699 |
| 1.200 | -9.2999 |
| 1.225 | -9.8299 |
| 1.250 | -10.3599 |
| 1.275 | -10.8899 |
| 1.300 | -11.4199 |
| 1.325 | -11.9499 |
| 1.350 | -12.4799 |
| 1.375 | -13.0099 |
| 1.400 | -13.5399 |
| 1.425 | -14.0699 |
| 1.450 | -14.5999 |
| 1.475 | -15.1299 |
| 1.500 | -15.6599 |
| 1.525 | -16.1899 |
| 1.550 | -16.7199 |
| 1.575 | -17.2499 |
| 1.600 | -17.7799 |
| 1.625 | -18.3099 |
| 1.650 | -18.8399 |
| 1.675 | -19.3699 |
| 1.700 | -19.8999 |
| 1.725 | -20.4299 |
| 1.750 | -20.9599 |
| 1.775 | -21.4899 |
| 1.800 | -22.0199 |
| 1.825 | -22.5499 |
| 1.850 | -23.0799 |
| 1.875 | -23.6099 |
| 1.900 | -24.1399 |
| 1.925 | -24.6699 |
| 1.950 | -25.1999 |
| 1.975 | -25.7299 |
| 2.000 | -26.2599 |
| 2.025 | -26.7899 |
| 2.050 | -27.3199 |
| 2.075 | -27.8499 |
| 2.100 | -28.3799 |
| 2.125 | -28.9099 |
| 2.150 | -29.4399 |
| 2.175 | -29.9699 |
| 2.200 | -30.4999 |
| 2.225 | -31.0299 |
| 2.250 | -31.5599 |
| 2.275 | -32.0899 |
| 2.300 | -32.6199 |
| 2.325 | -33.1499 |
| 2.350 | -33.6799 |
| 2.375 | -34.2099 |
| 2.400 | -34.7399 |
| 2.425 | -35.2699 |
| 2.450 | -35.7999 |
| 2.475 | -36.3299 |
| 2.500 | -36.8599 |
| 2.525 | -37.3899 |
| 2.550 | -37.9199 |
| 2.575 | -38.4499 |
| 2.600 | -38.9799 |
| 2.625 | -39.5099 |
| 2.650 | -40.0399 |
| 2.675 | -40.5699 |
| 2.700 | -41.0999 |
| 2.725 | -41.6299 |
| 2.750 | -42.1599 |
| 2.775 | -42.6899 |
| 2.800 | -43.2199 |
| 2.825 | -43.7499 |
| 2.850 | -44.2799 |
| 2.875 | -44.8099 |
| 2.900 | -45.3399 |
| 2.925 | -45.8699 |
| 2.950 | -46.3999 |
| 2.975 | -46.9299 |
| 3.000 | -47.4599 |
| 3.025 | -47.9899 |
| 3.050 | -48.5199 |
| 3.075 | -49.0499 |
| 3.100 | -49.5799 |
| 3.125 | -50.1099 |
| 3.150 | -50.6399 |
| 3.175 | -51.1699 |
| 3.200 | -51.6999 |
| 3.225 | -52.2299 |
| 3.250 | -52.7599 |
| 3.275 | -53.2899 |
| 3.300 | -53.8199 |
| 3.325 | -54.3499 |
| 3.350 | -54.8799 |
| 3.375 | -55.4099 |
| 3.400 | -55.9399 |
| 3.425 | -56.4699 |
| 3.450 | -56.9999 |
| 3.475 | -57.5299 |
| 3.500 | -58.0599 |
| 3.525 | -58.5899 |
| 3.550 | -59.1199 |
| 3.575 | -59.6499 |
| 3.600 | -60.1799 |
| 3.625 | -60.7099 |
| 3.650 | -61.2399 |
| 3.675 | -61.7699 |
| 3.700 | -62.2999 |
| 3.725 | -62.8299 |
| 3.750 | -63.3599 |
| 3.775 | -63.8899 |
| 3.800 | -64.4199 |
| 3.825 | -64.9499 |
| 3.850 | -65.4799 |
| 3.875 | -66.0099 |
| 3.900 | -66.5399 |
| 3.925 | -67.0699 |
| 3.950 | -67.5999 |
| 3.975 | -68.1299 |
| 4.000 | -68.6599 |
| 4.025 | -69.1899 |
| 4.050 | -69.7199 |
| 4.075 | -70.2499 |
| 4.100 | -70.7799 |
| 4.125 | -71.3099 |
| 4.150 | -71.8399 |
| 4.175 | -72.3699 |
| 4.200 | -72.8999 |
| 4.225 | -73.4299 |
| 4.250 | -73.9599 |
| 4.275 | -74.4899 |
| 4.300 | -75.0199 |
| 4.325 | -75.5499 |
| 4.350 | -76.0799 |
| 4.375 | -76.6099 |
| 4.400 | -77.1399 |
| 4.425 | -77.6699 |
| 4.450 | -78.1999 |
| 4.475 | -78.7299 |
| 4.500 | -79.2599 |
| 4.525 | -79.7899 |
| 4.550 | -80.3199 |
| 4.575 | -80.8499 |
| 4.600 | -81.3799 |
| 4.625 | -81.9099 |
| 4.650 | -82.4399 |
| 4.675 | -82.9699 |
| 4.700 | -83.4999 |
| 4.725 | -84.0299 |
| 4.750 | -84.5599 |
| 4.775 | -85.0899 |
| 4.800 | -85.6199 |
| 4.825 | -86.1499 |
| 4.850 | -86.6799 |
| 4.875 | -87.2099 |
| 4.900 | -87.7399 |
| 4.925 | -88.2699 |
| 4.950 | -88.7999 |
| 4.975 | -89.3299 |
| 5.000 | -89.8599 |
| 5.025 | -90.3899 |
| 5.050 | -90.9199 |
| 5.075 | -91.4499 |
| 5.100 | -91.9799 |
| 5.125 | -92.5099 |
| 5.150 | -93.0399 |
| 5.175 | -93.5699 |
| 5.200 | -94.0999 |
| 5.225 | -94.6299 |
| 5.250 | -95.1599 |
| 5.275 | -95.6899 |
| 5.300 | -96.2199 |
| 5.325 | -96.7499 |
| 5.350 | -97.2799 |
| 5.375 | -97.8099 |
| 5.400 | -98.3399 |
| 5.425 | -98.8699 |
| 5.450 | -99.3999 |
| 5.475 | -99.9299 |
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| 5.550 | -101.5199 |
| 5.575 | -102.0499 |
| 5.600 | -102.5799 |
| 5.625 | -103.1099 |
| 5.650 | -103.6399 |
| 5.675 | -104.1699 |
| 5.700 | -104.6999 |
| 5.725 | -105.2299 |
| 5.750 | -105.7599 |
| 5.775 | -106.2899 |
| 5.800 | -106.8199 |
| 5.825 | -107.3499 |
| 5.850 | -107.8799 |
| 5.875 | -108.4099 |
| 5.900 | -108.9399 |
| 5.925 | -109.4699 |
| 5.950 | -110.0000 |
| 5.975 | -110.5299 |
| 6.000 | -111.0599 |
| 6.025 | -111.5899 |
| 6.050 | -112.1199 |
| 6.075 | -112.6499 |
| 6.100 | -113.1799 |
| 6.125 | -113.7099 |
| 6.150 | -114.2399 |
| 6.175 | -114.7699 |
| 6.200 | -115.2999 |
| 6.225 | -115.8299 |
| 6.250 | -116.3599 |
| 6.275 | -116.8899 |
| 6.300 | -117.4199 |
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| 6.375 | -119.0099 |
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| 6.550 | -122.7199 |
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| 6.600 | -123.7799 |
| 6.625 | -124.3099 |
| 6.650 | -124.8399 |
| 6.675 | -125.3699 |
| 6.700 | -125.8999 |
| 6.725 | -126.4299 |
| 6.750 | -126.9599 |
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| 6.800 | -128.0199 |
| 6.825 | -128.5499 |
| 6.850 | -129.0799 |
| 6.875 | -129.6099 |
| 6.900 | -130.1399 |
| 6.925 | -130.6699 |
| 6.950 | -131.1999 |
| 6.975 | -131.7299 |
| 7.000 | -132.2599 |
| 7.025 | -132.7899 |
| 7.050 | -133.3199 |
| 7.075 | -133.8499 |
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| 7.125 | -134.9099 |
| 7.150 | -135.4399 |
| 7.175 | -135.9699 |
| 7.200 | -136.4999 |
| 7.225 | -137.0299 |
| 7.250 | -137.5599 |
| 7.275 | -138.0899 |
| 7.300 | -138.6199 |
| 7.325 | -139.1499 |
| 7.350 | -139.6799 |
| 7.375 | -140.2099 |
| 7.400 | -140.7399 |
| 7.425 | -141.2699 |
| 7.450 | -141.7999 |
| 7.475 | -142.3299 |
| 7.500 | -142.8599 |
| 7.525 | -143.3899 |
| 7.550 | -143.9199 |
| 7.575 | -144.4499 |
| 7.600 | -144.9799 |
| 7.625 | -145.5099 |
| 7.650 | -146.0399 |
| 7.675 | -146.5699 |
| 7.700 | -147.0999 |
| 7.725 | -147.6299 |
| 7.750 | -148.1599 |
| 7.775 | -148.6899 |
| 7.800 | -149.2199 |
| 7.825 | -149.7499 |
| 7.850 | -150.2799 |
| 7.875 | -150.8099 |
| 7.900 | -151.3399 |
| 7.925 | -151.8699 |
| 7.950 | -152.3999 |
| 7.975 | -152.9299 |
| 8.000 | -153.4599 |
| 8.025 | -153.9899 |
| 8.050 | -154.5199 |
| 8.075 | -155.0499 |
| 8.100 | -155.5799 |
| 8.125 | -156.1099 |
| 8.150 | -156.6399 |
| 8.175 | -157.1699 |
| 8.200 | -157.6999 |
| 8.225 | -158.2299 |
| 8.250 | -158.7599 |
| 8.275 | -159.2899 |
| 8.300 | -159.8199 |
| 8.325 | -160.3499 |
| 8.350 | -160.8799 |
| 8.375 | -161.4099 |
| 8.400 | -161.9399 |
| 8.425 | -162.4699 |
| 8.450 | -162.9999 |
| 8.475 | -163.5299 |
| 8.500 | -164.0599 |
| 8.525 | -164.5899 |
| 8.550 | -165.1199 |
| 8.575 | -165.6499 |
| 8.600 | -166.1799 |
| 8.625 | -166.7099 |
| 8.650 | -167.2399 |
| 8.675 | -167.7699 |
| 8.700 | -168.2999 |
| 8.725 | -168.8299 |
| 8.750 | -169.3599 |
| 8.775 | -169.8899 |
| 8.800 | -170.4199 |
| 8.825 | -170.9499 |
| 8.850 | -171.4799 |
| 8.875 | -172.0099 |
| 8.900 | -172.5399 |
| 8.925 | -173.0699 |
| 8.950 | -173.5999 |
| 8.975 | -174.1299 |
| 9.000 | -174.6599 |
| 9.025 | -175.1899 |
| 9.050 | -175.7199 |
| 9.075 | -176.2499 |
| 9.100 | -176.7799 |
| 9.125 | -177.3099 |
| 9.150 | -177.8399 |
| 9.175 | -178.3699 |
| 9.200 | -178.8999 |
| 9.225 | -179.4299 |
| 9.250 | -179.9599 |
| 9.275 | -180.4899 |
| 9.300 | -181.0199 |
| 9.325 | -181.5499 |
| 9.350 | -182.0799 |
| 9.375 | -182.6099 |
| 9.400 | -183.1399 |
| 9.425 | -183.6699 |
| 9.450 | -184.1999 |
| 9.475 | -184.7299 |
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| 9.525 | -185.7899 |
| 9.550 | -186.3199 |
| 9.575 | -186.8499 |
| 9.600 | -187.3799 |
| 9.625 | -187.9099 |
| 9.650 | -188.4399 |
| 9.675 | -188.9699 |
| 9.700 | -189.4999 |
| 9.725 | -190.0299 |
| 9.750 | -190.5599 |
| 9.775 | -191.0899 |
| 9.800 | -191.6199 |
| 9.825 | -192.1499 |
| 9.850 | -192.6799 |
| 9.875 | -193.2099 |
| 9.900 | -193.7399 |
| 9.925 | -194.2699 |
| 9.950 | -194.7999 |
| 9.975 | -195.3299 |
| 10.000 | -195.8599 |

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 09 JUL 75

OH14 TABULATED SOURCE DATA

PAGE 124

OH14 922C7F54-V7W111 FUSELAGE LOWER SURFACE (001904)

PAUL (7) = 6.000 MACH (1) = 8.0+5

SECTION 1 (1) BOTTOM

DEPENDENT VARIABLE 0001

B.P. 0000000 0000

X/L
0.040 4.3712

PAUL (8) = 8.000 MACH (1) = 8.081 MACH = 8.0810 PO = 2029.5 TO = 1435.8 HQ = .12900

SECTION 1 (1) BOTTOM

DEPENDENT VARIABLE 0001

B.P. 0000000 0000

X
0.05 12.3550
0.10 18.0850
0.15 23.8150
0.20 29.5450
0.25 35.2750
0.30 41.0050
0.35 46.7350
0.40 52.4650
0.45 58.1950
0.50 63.9250
0.55 69.6550
0.60 75.3850
0.65 81.1150
0.70 86.8450
0.75 92.5750
0.80 98.3050
0.85 104.0350
0.90 109.7650
0.95 115.4950
1.00 121.2250
1.05 126.9550
1.10 132.6850
1.15 138.4150
1.20 144.1450
1.25 149.8750
1.30 155.6050
1.35 161.3350
1.40 167.0650
1.45 172.7950
1.50 178.5250
1.55 184.2550
1.60 190.0000
1.65 195.7500
1.70 201.5000
1.75 207.2500
1.80 213.0000
1.85 218.7500
1.90 224.5000
1.95 230.2500
2.00 236.0000
2.05 241.7500
2.10 247.5000
2.15 253.2500
2.20 259.0000
2.25 264.7500
2.30 270.5000
2.35 276.2500
2.40 282.0000
2.45 287.7500
2.50 293.5000
2.55 299.2500
2.60 305.0000
2.65 310.7500
2.70 316.5000
2.75 322.2500
2.80 328.0000
2.85 333.7500
2.90 339.5000
2.95 345.2500
3.00 351.0000
3.05 356.7500
3.10 362.5000
3.15 368.2500
3.20 374.0000
3.25 379.7500
3.30 385.5000
3.35 391.2500
3.40 397.0000
3.45 402.7500
3.50 408.5000
3.55 414.2500
3.60 420.0000
3.65 425.7500
3.70 431.5000
3.75 437.2500
3.80 443.0000
3.85 448.7500
3.90 454.5000
3.95 460.2500
4.00 466.0000
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4.10 477.5000
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4.40 512.0000
4.45 517.7500
4.50 523.5000
4.55 529.2500
4.60 535.0000
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4.70 546.5000
4.75 552.2500
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4.90 569.5000
4.95 575.2500
5.00 581.0000
5.05 586.7500
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5.15 598.2500
5.20 604.0000
5.25 609.7500
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6.75 782.2500
6.80 788.0000
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6.90 799.5000
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30.90 3567.5000
30.95 3573.2500
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31.10 3590.5000
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35.55 4104.2500
35.60 4110.00

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA
OH14 B22C7F5M4V7W111 WING LOWER SURFACE

PAGE 125
(00LW04) (21 JUN 76)

REFERENCE DATA

SPEE = 2550.0000 SQ.FT. XMRP = .0000 IN.
LEEF = 123.3000 IN. YMRP = .0000
SPEE = 1230.3000 IN. ZMRP = .0000
SCALE = .0060

PARAMETRIC DATA

ALPHA = 30.000 BETA = .000
MACH = 8.000

RY/L (1) = 1.000 MACH (1) = 7.805 MACH = 7.8050 PO = 228.40 TO = 1268.0 HQ = .44000-01

DEPENDENT VARIABLE QDOT

SECTION / LING

2Y.B .4000 .6000 .8000

X/C

.050 1.0433
.100 1.9278 2.2048
.200 1.4743 2.0649
.300 1.0979 1.7285
.400 .9113 1.5689 1.7391
.500 .8137 1.4590
.600 .7555 1.3505 1.3813
.700 .7099 1.2123
.800 .6516 1.1326
.900 .5121 .7577

RY/L (2) = 3.000 MACH (1) = 7.954 MACH = 7.9540 PO = 596.45 TO = 1355.1 HQ = .78000-01

SECTION / LING

2Y.B .4000 .6000 .8000

X/C

.050 3.5384
.100 3.7109 4.5502
.200 2.0069 4.1830
.300 2.1390 3.5684
.400 .7562 3.2457 3.5534
.500 .5565 3.0548
.600 1.4774 2.9369 2.8109
.700 1.3155 2.6507
.800 .1834 2.1111 2.2474
.900 .9527 1.5914

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 127

OH14 B22C7F5M4V7M111 WING LOWER SURFACE

(OQLW04)

RN/L (3) = 4.200 MACH (1) = 7.996 MACH = 7.9960 PO = 977.05 TO = 1427.4 HQ = .91000-01

DEPENDENT VARIABLE QDOT

SECTION (1) WING
2Y/B .4000 .6000 .8000

X/C
.350 4.7786
.100 5.0124 6.0641
.200 4.0132 5.5666
.300 2.3619 4.7699
.400 2.4934 4.4298 4.7147
.500 2.2829 4.3416
.600 2.2279 4.1864 3.7521
.700 2.1517 3.9371
.800 1.9946..... 3.0024
.900 1.7332 2.3627

RN/L (4) = 4.500 MACH (1) = 8.008 MACH = 8.0080 PO = 1082.2 TO = 1423.5 HQ = .96000-01

DEPENDENT VARIABLE QDOT

SECTION (1) WING
2Y/B .4000 .6000 .8000

X/C
.050 4.9841
.100 5.2536 6.2008
.200 4.2191 5.6299
.300 3.0808 4.8845
.400 2.5491 4.7135 5.0466
.500 2.2784 4.9633
.600 2.1626 5.0030 3.9647
.700 2.0054 4.6984
.800 1.8346..... 3.1374
.900 1.5263 2.6995

RN/L (5) = 5.000 MACH (1) = 8.023 MACH = 8.0230 PO = 1230.6 TO = 1433.1 HQ = .10200

DEPENDENT VARIABLE QDOT

SECTION (1) WING
2Y/B .4000 .6000 .8000

X/C
.050 3.9478
.100 5.2295 6.3922
.200 4.4067 5.6546
.300 3.3024 4.7668
.400 2.8646 4.6898 5.5573
.500 2.7575 5.2622
.600 2.9142 5.4840 4.2406
.700 2.9747 5.2344
.800 2.9142..... 3.3595

OH14 TABULATED SOURCE DATA

(COOLW04)

DATE 09 JUL 76

OH14 B22C7F5W4V7W111 WING LOWER SURFACE

RN/L (5) = 5.000 MACH (1) = 8.023

SECTION (1) WING DEPENDENT VARIABLE QDOT

2Y/B .4000 .6000 .8000

X/C .050 2.6040 3.1406

RN/L (6) = 5.500 MACH (1) = 8.034 MACH = 8.0340 P0 = 1350.0 T0 = 1399.5 H0 = .10600

SECTION (1) WING DEPENDENT VARIABLE QDOT

2Y/B .4000 .6000 .8000

X/C

.050 4.9260
.100 5.2352 6.6205
.200 4.5232 6.2808
.300 3.4290 6.4210
.400 2.9894 4.8202 6.0154
.500 2.9056 7.4115
.600 3.0756 7.6415 4.8018
.700 3.0367 6.5360
.800 3.0035 4.0750
.900 2.7045 3.7818

RN/L (7) = 6.000 MACH (1) = 8.045 MACH = 8.0450 P0 = 1482.3 T0 = 1386.8 H0 = .11000

SECTION (1) WING DEPENDENT VARIABLE QDOT

2Y/B .4000 .6000 .8000

X/C

.050 5.0486
.100 5.4644 5.9404
.200 4.6923 6.6595
.300 3.4671 4.7355
.400 2.9382 5.1420 6.4440
.500 2.7570 5.7474
.600 2.9205 8.0737 5.5102
.700 2.9451 7.6032
.800 2.8796 4.9419
.900 2.7000 4.6622

DATE 09 JUL 75

OH14 TABULATED SOURCE DATA

PAGE 129

OH14 B22C7F5H4V7H111 WING LOWER SURFACE (OOLW04)

RN/L (8) = 8.000 MACH (1) = 8.081 MACH = 8.0810 PO = 2029.5 TO = 1435.8 HO = .12900

SECTION (1) WING

DEPENDENT VARIABLE QDOT

2Y/B .4000 .6000 .8000

X/C
.050 6.2619
.100 6.6337 8.9163
.200 5.9393 5.7096
.300 4.7622 6.4386
.400 4.2379 5.5371 8.3819
.500 4.2355 7.0955
.600 5.9380 10.2644 8.0906
.700 5.1811 10.5500
.800 5.4179 8.0435
.900 5.3228 6.6410

RN/L (9) = 10.000 MACH (1) = 8.106 MACH = 8.1060 PO = 2540.6 TO = 1390.0 HO = .14200

SECTION (1) WING

DEPENDENT VARIABLE QDOT

2Y/B .4000 .6000 .8000

X/C
.050 6.3892
.100 7.8744 12.2566
.200 8.5545 8.6538
.300 10.9236 8.3111 9.1856
.400 7.4285 7.8699
.500 7.2053 7.6879
.600 8.9455 7.8126 11.6890
.700 9.5142 10.3896
.800 9.3336 10.1343
.900 7.3952 7.0081

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OF POOR QUALITY

OH14 TABULATED SOURCE DATA

OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

(QQLS04) (21 JUN 76)

PARAMETRIC DATA

ALPHA = 30.000 BETA = .000
MACH = 8.000

REFERENCE DATA

SPEF = 2695.0000 SQ.FT. XMRP = .0000 IN.
LREF = 1290.3000 IN. YMRP = .0000
BREF = 1290.3000 IN. ZMRP = .0000
SCALE = .0050

RN/L (1) = 1.000 MACH (1) = 7.805 MACH = 7.8050 PO = 228.40 TO = 1268.0 HO = .44000-C1

SECTION (1) TOP

DEPENDENT VARIABLE ODOT

| X/L | .1700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| W.P. | | | | | | | | |
| 375.000 | .2995 | .2556 | | .3335 | .1495 | .0919 | .0318 | |
| 400.000 | | .2007 | .3642 | | .3173 | .1827 | .0497 | |
| 425.000 | | | | | | | | .0516 |
| 450.000 | .2084 | .0419 | .0555 | | .0740 | .0478 | .0453 | |
| 501.000 | | | | | | | | |

RN/L (2) = 3.000 MACH (1) = 7.954 MACH = 7.9540 PO = 696.45 TO = 1355.1 HO = .78000-C1

SECTION (1) TOP

DEPENDENT VARIABLE ODOT

| X/L | .1700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| W.P. | | | | | | | | |
| 375.000 | .6579 | .6825 | | .8723 | .2809 | .1080 | .1182 | |
| 400.000 | | .4155 | .8575 | | .7579 | .4480 | .1081 | |
| 425.000 | | | | | | | | .0669 |
| 450.000 | .4701 | .0890 | .1282 | | .0984 | .1414 | .1515 | |
| 501.000 | | | | | | | | |

RN/L (3) = 4.000 MACH (1) = 7.996 MACH = 7.9960 PO = 977.05 TO = 1427.4 HO = .91000-C1

SECTION (1) TOP

DEPENDENT VARIABLE ODOT

| X/L | .1700 | .3000 | .4000 | .4250 | .5000 | .6000 | .7000 | .8250 |
|---------|-------|-------|--------|--------|--------|-------|-------|-------|
| W.P. | | | | | | | | |
| 375.000 | .8929 | .9547 | | 1.1984 | .4123 | .1520 | .1653 | |
| 400.000 | | .5626 | 1.1425 | | 1.0636 | .6934 | .1936 | |
| 425.000 | | | | | | | | .1463 |
| 450.000 | .6741 | .1243 | .1770 | | .1842 | .2111 | .2377 | |
| 501.000 | | | | | | | | |

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 131

OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE (QQL504)

RN/L (4) = 4.500 MACH (1) = 8.008 MACH = 8.008 PO = 1082.2 TO = 1423.5 HO = .96000-C1

SECTION (1) TOP

| X/L | W.P. | DEPENDENT VARIABLE QDOT |
|-------|--------------|-------------------------------|
| .1700 | .3000 | .4250 .5000 .6000 .7000 .8250 |
| .3000 | .9553 1.0244 | .4575 .2094 .1286 |
| .4000 | .5980 1.2256 | 1.1745 .7489 .1713 |
| .5000 | .1093 .2311 | .1900 .2233 .2477 |
| .6000 | .10154 | .1573 |

RN/L (5) = 5.000 MACH (1) = 8.023 MACH = 8.023 PO = 1230.6 TO = 1433.1 HO = .10200

SECTION (1) TOP

| X/L | W.P. | DEPENDENT VARIABLE QDOT |
|-------|--------------|-------------------------------|
| .1700 | .3000 | .4250 .5000 .6000 .7000 .8250 |
| .3000 | .9318 1.0452 | .4834 .1806 .1330 |
| .4000 | .6103 1.1942 | 1.1311 .8195 .1902 |
| .5000 | .1329 .2805 | .1954 .2290 .2405 |
| .6000 | .7829 | .1544 |

RN/L (6) = 5.500 MACH (1) = 8.034 MACH = 8.034 PO = 1350.0 TO = 1399.5 HO = .10500

SECTION (1) TOP

| X/L | W.P. | DEPENDENT VARIABLE QDOT |
|-------|--------------|-------------------------------|
| .1700 | .3000 | .4250 .5000 .6000 .7000 .8250 |
| .3000 | .9459 1.0735 | .4945 .2169 .1305 |
| .4000 | .6099 1.2173 | 1.1691 .8795 .1549 |
| .5000 | .1383 .3054 | .2186 .2658 .2279 |
| .6000 | .10945 | .1487 |

RN/L (7) = 5.000 MACH (1) = 8.045 MACH = 8.045 PO = 1482.3 TO = 1386.8 HO = .11000

SECTION (1) TOP

| X/L | W.P. | DEPENDENT VARIABLE QDOT |
|-------|---------------|-------------------------------|
| .1700 | .3000 | .4250 .5000 .6000 .7000 .8250 |
| .3000 | .10602 1.1226 | .5523 .2235 .1391 |
| .4000 | .6368 1.3155 | 1.2837 .9810 .2212 |
| .5000 | .1585 .3584 | .2609 .1772 .1737 |
| .6000 | .8546 | .1990 |

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 132

OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE (QDL504)

RN/L (8) = 8.000 MACH (1) = 8.081 MACH = 8.0810 P0 = 2029.5 T0 = 1435.8 W0 = .12900

SECTION (1) TOP

DEPENDENT VARIABLE QDOT

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.

375.000 1.3490 1.5143 1.8398 .7688 .3484 .2105
 400.000
 425.000 .8522 1.6276 1.7575 1.4814 .3832
 465.000
 501.000 1.1720 .2192 .5242 .3569 .1928 .2286

.3790

RN/L (9) = 10.000 MACH (1) = 8.106 MACH = 8.1060 P0 = 2540.6 T0 = 1390.0 W0 = .14200

SECTION (1) TOP

DEPENDENT VARIABLE QDOT

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.

375.000 1.4128 1.6876 1.9851 .9578 .4818 .2515
 400.000
 425.000 .9345 1.6815 1.8795 2.1593 .6519
 465.000
 501.000 1.8848 .3000 .5685 .4546 .1863 .1674

.4262

REFERENCE DATA PAPAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN. ALPHA = 30.000 BETA = .000
 LREF = 1290.3000 IN. YMRP = .0000 MACH = 8.000
 BREF = 1290.3000 IN. ZMRP = .0000
 SCALE = .0060

RN/L (1) = 1.000 MACH (1) = 7.805 MACH = 7.8050 P0 = 228.40 T0 = 1269.0 H0 = .44000-01

SECTION (1) CHINE DEPENDENT VARIABLE ODOT

ANGLE 30.0000

X/L
 .100 2.4570
 .150 2.1172
 .200 1.5206

RN/L (2) = 3.000 MACH (1) = 7.954 MACH = 7.9540 P0 = 696.45 T0 = 1355.1 H0 = .78000-01

SECTION (1) CHINE DEPENDENT VARIABLE ODOT

ANGLE 30.0000

X/L
 .100 5.0020
 .150 4.3471
 .200 3.1823

RN/L (3) = 4.000 MACH (1) = 7.996 MACH = 7.9960 P0 = 977.05 T0 = 1427.4 H0 = .91000-01

SECTION (1) CHINE DEPENDENT VARIABLE ODOT

ANGLE 30.0000

X/L
 .100 5.5803
 .150 5.7509
 .200 4.1531

RN/L (4) = 4.500 MACH (1) = 8.008 MACH = 8.0080 P0 = 1082.2 T0 = 1423.5 H0 = .96000-01

SECTION (1) CHINE DEPENDENT VARIABLE ODOT

ANGLE 30.0000

X/L
 .100 7.0617
 .150 6.1590
 .200 4.4441

OH14 TABULATED SOURCE DATA

(00LM04)

OH14 822CTF5M4V7W.11 ORBITER FUSELAGE CHINE

DATE 29 JUL 76

HO = .10200

TO = 1433.1

PO = 1230.6

MACH (1) = 8.023

MACH = 8.0230

MACH (1) = 8.023

PN/L (5) = 5.000

SECTION : CHINE

ANGLE 30.0000

X L
.100 5.9741
.150 6.1506
.200 7.4015

HO = .10600

TO = 1399.5

PO = 1350.0

MACH (1) = 8.034

MACH = 8.0340

MACH (1) = 8.034

PN/L (5) = 5.500

SECTION : CHINE

ANGLE 30.0000

X L
.100 7.1095
.150 6.2914
.200 7.5134

HO = .11000

TO = 1386.8

PO = 1482.3

MACH (1) = 8.045

MACH = 8.0450

MACH (1) = 8.045

PN/L (7) = 6.000

SECTION : CHINE

ANGLE 30.0000

X L
.100 7.5287
.150 6.6363
.200 7.8566

HO = .12900

TO = 1435.8

PO = 2029.5

MACH (1) = 8.081

MACH = 8.0810

MACH (1) = 8.081

PN/L (8) = 8.000

SECTION : CHINE

ANGLE 30.0000

X L
.100 9.3441
.150 8.3241
.200 6.1775

DEPENDENT VARIABLE QDOT

DEPENDENT VARIABLE QDOT

DEPENDENT VARIABLE QDOT

DEPENDENT VARIABLE QDOT

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 135

OH14 B22C7F5M4V7W111 ORBITER FUSELAGE CHINE

(OQLM04)

RN/L (9) = 10.000 MACH (1) = 8.106 MACH = 8.1060 PO = 2540.6 TO = 1390.0 HO = .14200

SECTION (1) CHINE

DEPENDENT VARIABLE ODOT

ANGLE 30.0000

X/L
.100 9.7563
.150 8.7374
.200 6.5003

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 136

OH14 B22CTF5M4V7W111 FUSELAGE LOWER SURFACE

(00LB05) (21 JUN 76)

REFERENCE DATA

SPRF = 2690.0000 SQ.FT. XMRP = .0000 IN.
LREF = 1290.3000 IN. YMRP = .0000
BREF = 1290.3000 IN. ZMRP = .0000
SCALE = .0060

RN/L (1) = 1.000 MACH (1) = 7.805 MACH = 7.8050 PO = 228.45 TO = 1339.3 HO = .45000-01

SECTION (1) BOTTOM

DEPENDENT VARIABLE ODOT

B.P. .000017.0000

X/L
225 4.2653
250 3.2122
275 2.9763
300 2.6399
325 2.3488
350
375 1.9661
400 1.8582
425 1.6733
450 1.4895
475 1.2771 1.1910
500 1.3675
525 1.2995
550 1.3033 1.4676
575
600 1.1770 1.2254
625 1.1327
650 9980
675 1.0704
700 1.0497 8877
725 9854
750 8645 6077
775 7469
800 6215 4811
825 4654

RN/L (2) = 3.000 MACH (1) = 7.953 MACH = 7.9530 PO = 691.16 TO = 1405.4 HO = .78000-01

SECTION (1) BOTTOM

DEPENDENT VARIABLE ODOT

B.P. .000017.0000

X
225 7.8392
250 6.1900
275 5.7838
300 5.1627
325 4.6312

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 137

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

(COLB05)

RV/L (2) = 3.000 MACH (1) = 7.953

SECTION (1) BOTTOM

DEPENDENT VARIABLE CDOOT

B.P. .000017.0000

| X/L | |
|-------|---------------|
| .150 | ..... |
| .175 | 3.8615 |
| .200 | 3.6438 |
| .250 | 3.2923 |
| .300 | 2.9379 |
| .350 | 2.2603 2.3115 |
| .400 | 2.6754..... |
| .450 | 2.5342 |
| .500 | 2.5053 2.6648 |
| .550 | ..... |
| .600 | 2.1710 2.2578 |
| .650 | 2.1342 |
| .700 | ..... |
| .750 | 2.2699 1.8680 |
| .800 | 1.6269 1.5688 |
| .850 | 1.9741 |
| .900 | 1.7537 1.5647 |
| .950 | 1.5251 |
| 1.000 | 1.3269 1.5979 |
| 1.040 | 1.0694 |

RV/L (3) = 4.000 MACH (1) = 7.995 MACH = 7.9950 P0 = 973.32 T0 = 1447.4 H0 = .92000-01

SECTION (1) BOTTOM

DEPENDENT VARIABLE CDOOT

B.P. .000017.0000

| X/L | |
|------|---------------|
| .025 | 8.3036 |
| .050 | 6.7267 |
| .075 | 5.2822 |
| .100 | 5.6473 |
| .125 | 5.0683 |
| .150 | ..... |
| .175 | 4.2206 |
| .200 | 3.9630 |
| .250 | 3.5347 |
| .300 | 3.1943 |
| .350 | 2.4841 2.4708 |
| .400 | 2.6762..... |
| .450 | 2.1937 |
| .500 | 2.7826 2.8015 |
| .550 | |
| .600 | 2.4659 2.3381 |
| .650 | 2.1589 |

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DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 138

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

(OQLB05)

RN/L (3) = 4.000 MACH (1) = 7.995

SECTION (1) BOTTOM

DEPENDENT VARIABLE QDOT

B.P. .000017.0000

X/L
.700 2.5611
.750 3.0023
.800 2.6856 2.1487
.850 3.3664
.900 3.2202 2.3755
.950 3.0156
1.000 2.9816 2.3428
1.040 2.5013

RN/L (4) = 5.000 MACH (1) = 8.021 MACH = 8.0213 PO = 1209.7 TO = 1433.1 HC = 10100

SECTION (1) BOTTOM

DEPENDENT VARIABLE QDOT

B.P. .000017.0000

X/L
.025 8.8788
.050 7.3334
.075 6.9856
.100 6.2641
.125 5.6287
.150
.175 4.7130
.200 4.4013
.250 3.9212
.300 3.5099
.350 2.7722 2.5765
.400 3.1644
.450 3.1164
.500 3.1956 3.1376
.550
.600 3.2131 2.7777
.650 3.6333
.700 2.8722
.750 4.8650
.800 4.5431 3.5281
.850 5.6652
.900 5.2755 2.9455
.950 4.9524
1.000 4.9141 3.5231
1.040 4.1500

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 139

OH14 B22C7F5N4V7M111 FUSELAGE LOWER SURFACE

(OOLB05)

RN/L (5) = 6.000 MACH (1) = 8.047 MACH = 8.0470 PO = 1499.1 TO = 1431.9 HO = .11100

SECTION (1) BOTTOM

DEPENDENT VARIABLE QOOT

B.P. .0000117.0000

X/L
.025 10.1873
.050 8.3105
.075 7.9328
.100 7.1994
.125 6.4530
.150
.175 5.4587
.200 5.1205
.250 4.5232
.300 4.0176
.350 3.0751 3.0700
.400 3.6497
.450 3.5922
.500 3.7779 3.6091
.550
.600 4.1502 3.2515
.650 4.9539
.700 3.6851
.750 6.3279
.800 6.5581 3.7886
.850 7.8331
.900 7.3382 4.2467
.950 5.8805
1.000 6.7232 4.7620
1.040 5.5973

RN/L (6) = 8.000 MACH (1) = 8.081 MACH = 8.0810 PO = 2031.3 TO = 1431.7 HO = .12800

SECTION (1) BOTTOM

DEPENDENT VARIABLE QOOT

B.P. .0000117.0000

X/L
.025 11.7221
.050 9.6562
.075 9.1836
.100 8.294
.125 7.5460
.150
.175 6.4782
.200 6.0783
.250 5.3622
.300 4.8134
.350 3.1531 3.5868
.400 4.4732

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 140

OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

(00LB05)

RN/L (6) = 8.000 MACH (1) = 8.081

SECTION (1) BOTTOM

DEPENDENT VARIABLE QDOT

B.P. .0000117.0000

| X/L | QDOT |
|-------|---------|
| .450 | 4.6629 |
| .500 | 5.2705 |
| .550 | 5.1242 |
| .600 | 6.9624 |
| .650 | 8.4460 |
| .700 | 6.0154 |
| .750 | 11.1465 |
| .800 | 9.7323 |
| .850 | 11.3562 |
| .900 | 10.1603 |
| .950 | 9.4136 |
| 1.000 | 9.0563 |
| 1.040 | 7.4720 |

RN/L (7) = 10.000 MACH (1) = 8.105

MACH = 8.1050

P0

= 2523.2

T0

= 1428.4

H0

= .14200

DEPENDENT VARIABLE QDOT

B.P. .0000117.0000

| X/L | QDOT |
|-------|---------|
| .025 | 8.9780 |
| .050 | 10.4825 |
| .075 | 10.0755 |
| .100 | 9.1885 |
| .125 | 8.3607 |
| .150 | ..... |
| .175 | 7.0677 |
| .200 | 6.5844 |
| .250 | 5.8293 |
| .300 | 5.2733 |
| .350 | 2.9515 |
| .400 | 3.7577 |
| .450 | 5.1152 |
| .500 | 5.7073 |
| .550 | 7.1548 |
| .600 | 5.3282 |
| .650 | 10.4286 |
| .700 | 11.9203 |
| .750 | 6.8031 |
| .800 | 13.4924 |
| .850 | 11.0721 |
| .900 | 12.9215 |
| .950 | 11.5005 |
| 1.000 | 10.6397 |
| 1.040 | 10.3350 |
| 1.080 | 7.2789 |

PAGE 14

(000805)

OH14 TABULATED SOURCE DATA
OH14 B22C7F5M4V7W111 FUSELAGE LOWER SURFACE

8.105

MACH (1) =

RN/L (7) = 10.000

SECTION (1) BOTTOM

DEPENDENT VARIABLE QDOT

B.P. .0000117.0000

X/L
1.040 8.2995

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DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 142

OH14 B22C7F5M4V7W111 WING LOWER SURFACE (00LW05) (21 JUN 76)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = .0000 IN.
LREF = 1290.3000 IN. YMRP = .0000
BREF = 1290.3000 IN. ZMRP = .0000
SCALE = .0060

PARAMETRIC DATA

ALPHA = 35.000 BETA = .000
MACH = 8.000

PN/L (1) = 1.000 MACH (1) = 7.805 MACH = 7.8050 PO = 228.45 TO = 1339.3 HO = .45000-01

DEPENDENT VARIABLE QDOT

SECTION (1) WING

2Y/B .4000 .6000 .8000

X/C

.050 2.1457
.100 2.1472 2.4561
.200 1.6514 2.2611
.300 1.2606 1.8794
.400 1.0527 1.6724 2.0390
.500 .9350 1.5405
.600 .8845 1.4382 1.6202
.700 .8207 1.3289
.800 .7661..... 1.2930
.900 .6101 .8432

PN/L (2) = 3.000 MACH (1) = 7.953 MACH = 7.9530 PO = 691.16 TO = 1405.4 HO = .78000-01

DEPENDENT VARIABLE QDOT

SECTION (1) WING

2Y/B .4000 .6000 .8000

X/C

.050 3.8780
.100 3.9819 4.7425
.200 3.1436 4.2655
.300 2.3980 3.4723 3.9761
.400 1.9552 3.0775
.500 1.7538 2.9119
.600 1.6312 2.8152 3.0446
.700 1.4822 2.6386
.800 1.3748..... 2.3742
.900 1.1141 1.6444

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 143

OH14 B22C7F5M4V7M111 WING LOWER SURFACE

(OOLW05)

RN/L (3) = 4.000 MACH (1) = 7.995 MACH = 7.9950 PO = 973.32 TO = 1447.4 HO = .92000-01

SECTION (1) WING DEPENDENT VARIABLE QDOT

2Y/B .4000 .6000 .8000

X/C

.050 3.9876
.100 4.2365 5.5279
.200 3.3472 4.8674
.300 2.5346 3.9472
.400 2.0989 3.5398 4.6850
.500 1.9658 3.3839
.600 1.9976 3.3010 3.5052
.700 1.9407 3.0997
.800 1.9110..... 2.8160
.900 1.5872 2.0552

RN/L (4) = 5.000 MACH (1) = 8.021 MACH = 8.0210 PO = 1209.7 TO = 1433.1 HO = .10100

SECTION (1) WING DEPENDENT VARIABLE QDOT

2Y/B .4000 .6000 .8000

X/C

.050 4.3865
.100 4.7601 6.2111
.200 3.8867 5.5113
.300 3.0687 4.6763
.400 2.6776 4.3453 5.1522
.500 2.5522 4.2343
.600 2.8845 4.1761 3.9628
.700 2.9901 3.9990
.800 3.0061..... 3.3363
.900 2.6477 2.7110

RN/L (5) = 6.000 MACH (1) = 8.047 MACH = 8.0470 PO = 1499.1 TO = 1431.9 HO = .11100

SECTION (1) WING DEPENDENT VARIABLE QDOT

2Y/B .4000 .6000 .8000

X/C

.050 3.7391
.100 5.2416 7.0871
.200 4.4723 6.7739
.300 3.6679 6.8476
.400 3.3330..... 5.5459
.500 3.4390.....
.600 3.9335 7.7452 5.0211
.700 4.1848 7.5174
.800 4.2745 6.0075 5.0304

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 144

OH14 B22C7F5M4V7H111 WING LOWER SURFACE (QQLW05)

RN/L (5) = 6.000 MACH (1) = 8.047

SECTION (1) WING DEPENDENT VARIABLE QDOT

2Y/B .4000 .5000 .8000

X/C

.900 3.7765 4.8697

RN/L (6) = 8.000 MACH (1) = 8.081 MACH = 8.0810 P0 = 2031.3 T0 = 1431.7 H0 = .12800

SECTION (1) WING DEPENDENT VARIABLE QDOT

2Y/B .4000 .5000 .8000

X/C

.050 5.5337
.100 6.2999 9.8711
.200 5.7592 7.5280
.300 5.2197 7.3321
.400 5.1302 7.2048 7.2174
.500 5.9548 7.3342
.600 6.4145 7.5001 8.2693
.700 6.7182 7.4437
.800 6.7546 7.9611 10.2843
.900 6.0209 6.5178

RN/L (7) = 10.050 MACH (1) = 8.105 MACH = 8.1050 P0 = 2522.2 T0 = 1428.4 H0 = .14200

SECTION (1) WING DEPENDENT VARIABLE QDOT

2Y/B .4000 .6000 .8000

X/C

.050 6.5889
.100 8.0062 8.6132
.200 8.4614 7.7591
.300 8.8715 7.5641
.400 9.2643 7.4613 11.7794
.500 9.6384 7.6366
.600 10.1007 8.0376 8.5574
.700 9.8822 7.9629
.800 9.6352 10.3406 10.8693
.900 8.1482 8.0117

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 145

OH14 B22C7F5M4V7W111 FUSELAGE UPPER SURFACE

(OOL505) (21 JUN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
LREF = 1290.3000 IN. YMRP = .0000
BREF = 1290.3000 IN. ZMRP = .0000
SCALE = .0060

PARAMETRIC DATA

ALPHA = 35.000 BETA = .000
MACH = 8.000

PR/L (1) = 1.000 MACH (1) = 7.805 MACH = 7.8050 P0 = 228.45 T0 = 1339.3 H0 = .45000-01

SECTION (1) TOP

DEPENDENT VARIABLE QDOT

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.

375.000 .3275 .2316 .3123 .1204 .0534*****

400.000

425.000 .2296 .3657 .2943 .2943 .1469 .0441

450.000

475.000 .2910 .3612 .0570 .0346 .0575 .0522 .0396

500.000

PR/L (2) = 3.000 MACH (1) = 7.953 MACH = 7.9530 P0 = 691.16 T0 = 1405.4 H0 = .78000-01

SECTION (1) TOP

DEPENDENT VARIABLE QDOT

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.

375.000 .7029 .5826 .7747 .2474 .0832 .0760

400.000

425.000 .4499 .8701 .7262 .2488 .1524

450.000

475.000 .8359 .1039 .1704 .0982 .0854 .724 .1008

500.000

PR/L (3) = 4.000 MACH (1) = 7.995 MACH = 7.9950 P0 = 973.32 T0 = 1447.4 H0 = .92000-01

SECTION (1) TOP

DEPENDENT VARIABLE QDOT

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250

W.P.

375.000 .7810 .6720 .8985 .2456 .0707 .0887

400.000

425.000 .4903 .9634 .8835 .3015 .1251

450.000

475.000 .735 .0909 .2206 .1369 .1229 .1891 .1067

500.000

DATE 09 JUL 76

OH14 TABULATED SOURCE DATA

PAGE 146

PN/L (4) = 5.000 MACH (1) = 8.021 MACH = 8.0210 PO = 1209.7 TO = 1433.1 HO = .10100
(00LS05)

SECTION (1) TOP

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250
DEPENDENT VARIABLE QDOT

W.P.

375.000 .8856 .8064 1.0536 .3353 .1167 .1247
400.000
425.000 .5567 1.0782 1.0566 .4577 .1683
450.000
500.000 1.1501 .1369 .2620 .1544 .1732 .2383 .1147

PN/L (5) = 6.000 MACH (1) = 8.047 MACH = 8.0470 PO = 1493.1 TO = 1431.9 HO = .11100

SECTION (1) TOP

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250
DEPENDENT VARIABLE QDOT

W.P.

375.000 1.0458 .9698 1.2477 .3930 .1419 .1117
400.000
425.000 .6401 1.2255 1.2542 .5733 .1708
450.000
500.000 1.4183 .1214 .2672 .1826 .2087 .2571 .1570

PN/L (6) = 8.000 MACH (1) = 8.081 MACH = 8.0810 PO = 2031.3 TO = 1431.7 HO = .12800

SECTION (1) TOP

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250
DEPENDENT VARIABLE QDOT

W.P.

375.000 1.2205 1.2110 1.5287 .4292 .2205 .2156
400.000
425.000 .7708 1.4427 1.5287 1.6182 .6822 .2532
450.000
500.000 1.8881 .1178 .0950 .1062 .1955 .6019 .2129

PN/L (7) = 10.000 MACH (1) = 8.105 MACH = 8.1050 PO = 2522.2 TO = 1428.4 HO = .14200

SECTION (1) TOP

X/L .1700 .3000 .4000 .4250 .5000 .6000 .7000 .8250
DEPENDENT VARIABLE QDOT

W.P.

375.000 1.3757 1.3784 1.7672 .6965 .3329 .2501
400.000
425.000 .8803 1.6257 1.7672 2.0039 1.1314 .2925
450.000
500.000 1.6168 .1646 .1809 .1547 .2066 .2712 .1962

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.

LPEF = 1290.3000 IN. YMRP = .0000

BPEF = 1290.3000 IN. ZMRP = .0000

SCALE = .0050

PARAMETRIC DATA

ALPHA = 35.000 BETA = .000

MACH = 8.000

RN/L (1) = 1.000 MACH (1) = 7.805 MACH = 7.8050 PO = 228.45 TO = 1339.3 HO = .45000-01

SECTION (1) CHINE

ANGLE 30.0000

X/L

.100 2.7619

.150 2.4327

.200 1.8175

RN/L (2) = 3.000 MACH (1) = 7.953 MACH = 7.9530 PO = 69.16 TO = 1405.4 HO = .78000-01

SECTION (1) CHINE

ANGLE 30.0000

X/L

.100 5.4446

.150 4.8992

.200 3.6237

RN/L (3) = 4.000 MACH (1) = 7.995 MACH = 7.9950 PO = 973.32 TO = 1447.4 HO = .92000-01

SECTION (1) CHINE

ANGLE 30.0000

X/L

.100 5.9592

.150 5.3763

.200 3.9399

RN/L (4) = 5.000 MACH (1) = 8.021 MACH = 8.0210 PO = 1239.7 TO = 1433.1 HO = .10100

SECTION (1) CHINE

ANGLE 30.0000

X/L

.100 6.6201

.150 6.0238

.200 4.3898

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OF POOR QUALITY

OH14 TABULATED SOURCE DATA

DATE 09 JUL 76

OH14 B22C7F5M4V7W111 ORBITER FUSELAGE CHINE (OOLM05)

PN/L (5) = 6.000 MACH (1) = 8.047 MACH = 8.0470 P0 = 1499.1 TO = 1431.9 H0 = .12600

DEPENDENT VARIABLE ODOT

SECTION 1 CHINE

ANGLE 30.0000

X/L

.100 7.5700
.150 8.0375
.200 8.1000

PN/L (6) = 8.000 MACH (1) = 8.081 MACH = 8.0810 P0 = 2031.3 TO = 1431.7 H0 = .12600

DEPENDENT VARIABLE ODOT

SECTION 1 CHINE

ANGLE 30.0000

X/L

.100 8.0700
.150 8.0900
.200 8.0900

PN/L (7) = 10.000 MACH (1) = 8.105 MACH = 8.1050 P0 = 2502.2 TO = 1428.4 H0 = .14200

DEPENDENT VARIABLE ODOT

SECTION 1 CHINE

ANGLE 30.0000

X/L

.100 8.8800
.150 8.8400
.200 8.8400